

# FIELD MAINTENANCE PRINT SET

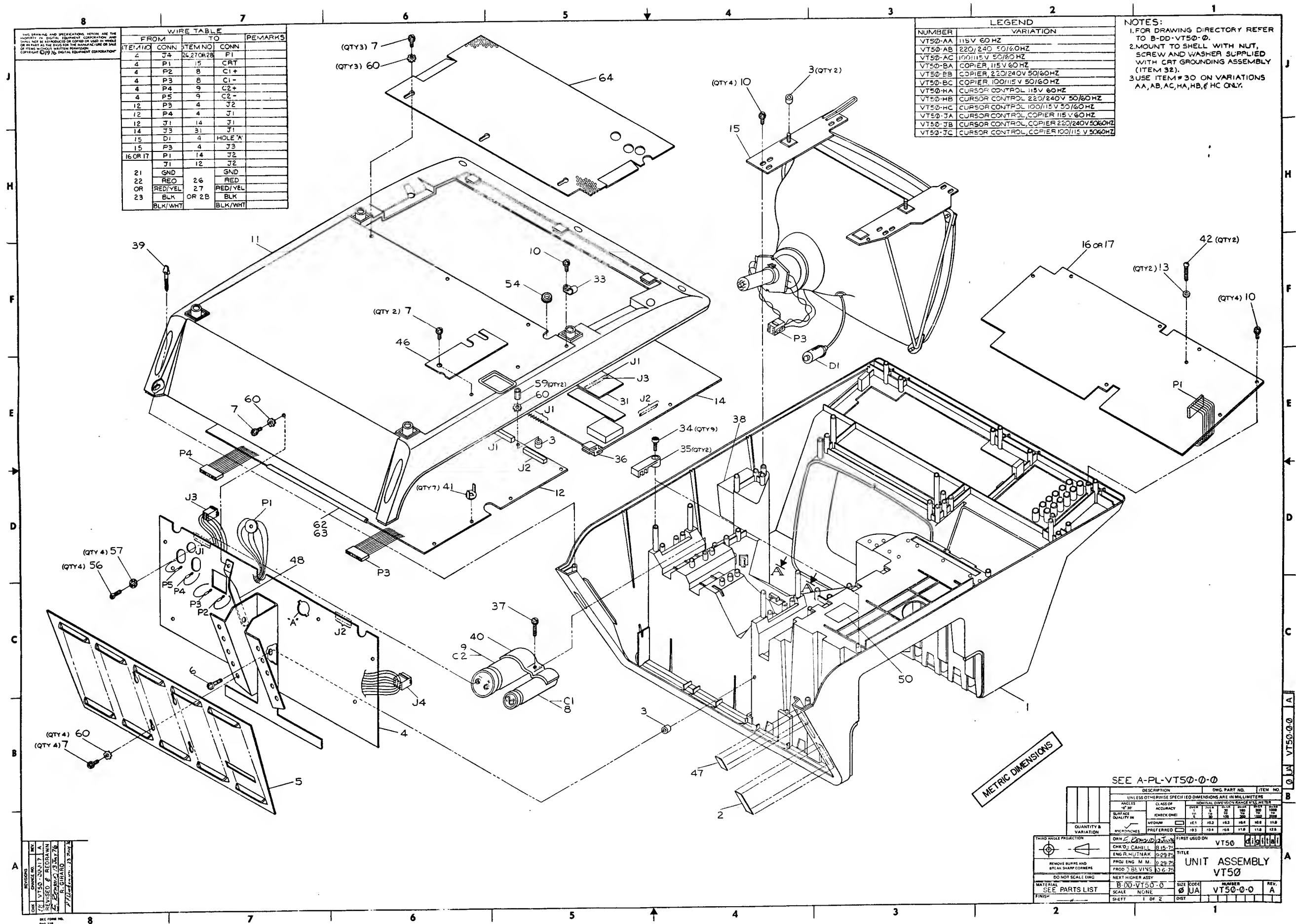
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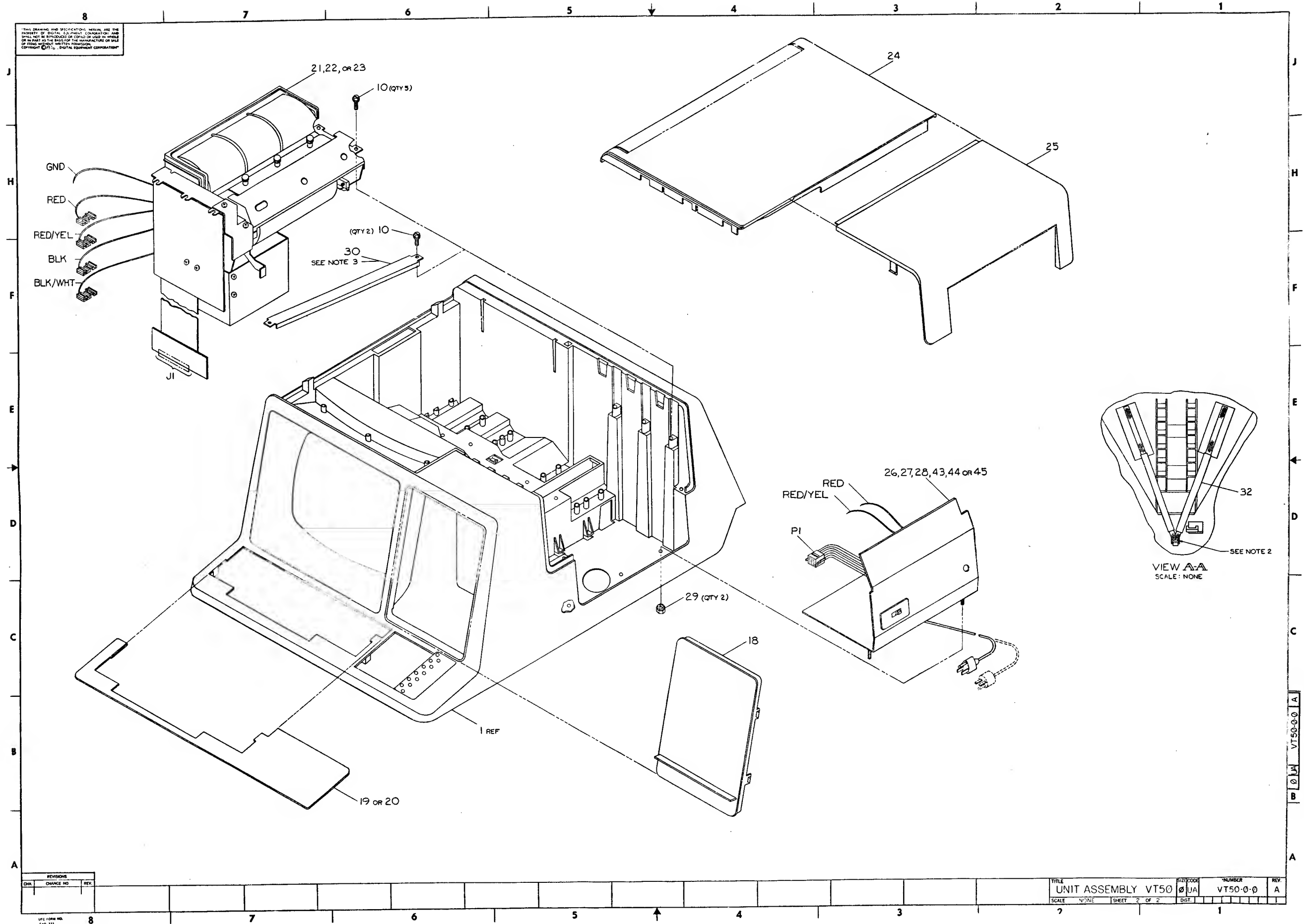
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# Digital Equipment Corporation

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REVISIONS		
CHK	CHANGE NO	REV

LFC FORM NO. 310

TITLE		SIZE/COOD	NUMBER	REV
UNIT ASSEMBLY VT50		0 UA	VT50-0-0	A
SCALE	NONE	SHEET	2 OF 2	DIST.


DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY / VARIATION												
MADE BY P. CAPPABIANCA		CHECKED J. CAHILL		SECTION		VT50-AA	VT50-AB	VT50-AC	VT50-BA	VT50-BB	VT50-BC	VT50-HA	VT50-HB	VT50-HC	VT50-JA	VT50-JB	VT50-JC
DATE 17-MAR-75		DATE 15-AUG-75		1													
ENG M. MORGANSTERN		PROD D. BEVINS		ISSUED SECT.													
DATE 29-SEP-75		DATE 1-OCT-75		1													
ITEM NO.	DWG NO. / PART NO.		DESCRIPTION														
1	E-MD-7411540-0-0		SHELL, VT50			1	1	1	1	1	1	1	1	1	1	1	1
2	9008141		TAG, SERIAL			1	1	1	1	1	1	1	1	1	1	1	1
3	9009672		SPACER, PLASTIC			4	4	4	4	4	4	4	4	4	4	4	4
4	D-CS-5410886-0-1		MONITOR, P.S.			1	1	1	1	1	1	1	1	1	1	1	1
5	I-MD-7412866-0-0		SINK, HEAT			1	1	1	1	1	1	1	1	1	1	1	1
6	9009679-02		SCREW, HEX WASHER HD., #8 x 3/4			1	1	1	1	1	1	1	1	1	1	1	1
7	9009683-01		SCREW, HEX WASHER HD., #8 - 32 x 3/8			10	10	10	10	10	10	10	10	10	10	10	10
8	1012412		CAP., 6,000 UF, 40V, 20%, AL EL			1	1	1	1	1	1	1	1	1	1	1	1
9	1011643		CAP., 18,000 UF, 25V, 20%, AL EL			1	1	1	1	1	1	1	1	1	1	1	1
10	9009681-05		SCREW, HEX WASHER HD., #10 x 3/8			11	11	11	16	16	16	11	11	11	16	16	16
11	0-AD-7010858-0-0		BASE ASSEMBLY			1	1	1	1	1	1	1	1	1	1	1	1
12	D-CS-5410906-0-1		DATA PATHS MEMORY AND DECODER			1	1	1	1	1	1	1	1	1	1	1	1
13	9009671		WASHER, BARSEAL, #8			2	2	2	2	2	2	2	2	2	2	2	2
14	D-CS-5410902-0-1		ROM UART AND TIMING			1	1	1	1	1	1	1	1	1	1	1	1
15	0-AD-7010859-0-0		CRT ASSEMBLY			1	1	1	1	1	1	1	1	1	1	1	1
16	D-CS-5410893-0-1		KEYBOARD A VT50			1	1	1	1	1	-	-	-	-	-	-	-
17	D-CS-5411170-0-1		KEYBOARD H-J			-	-	-	-	-	-	1	1	1	1	1	1
18	D-MD-7413103-0-0		COVER, CASSETTE			1	1	1	1	1	1	1	1	1	1	1	1
19	D-IA-7413093-0 2		BEZEL, KEYBOARD			1	1	1	1	1	1	-	-	-	-	-	-
20	D-IA-7413432-0-0		BEZEL, KEYBOARD H-J			-	-	-	-	-	-	1	1	1	1	1	1
21	0-UA-7010068-0-0		COPIER, ASSEMBLY 115V/60HZ			-	-	-	1	-	-	-	-	-	1	-	-
22	0-UA-7010068-1-0		COPIER, ASSEMBLY 220/240 50HZ			-	-	-	-	1	-	-	-	-	-	1	-
TITLE UNIT ASSEMBLY VT50			ASSY NO. 0-UA-VT50-0-0			SIZE CODE A PL		NUMBER VT50-0-0						REV. A		ECO NO. VT50-00017	
			SHEET 1 OF 3			DIST.											

DEC FORM DEC 16-(325)-1031-N870  
DRA 110

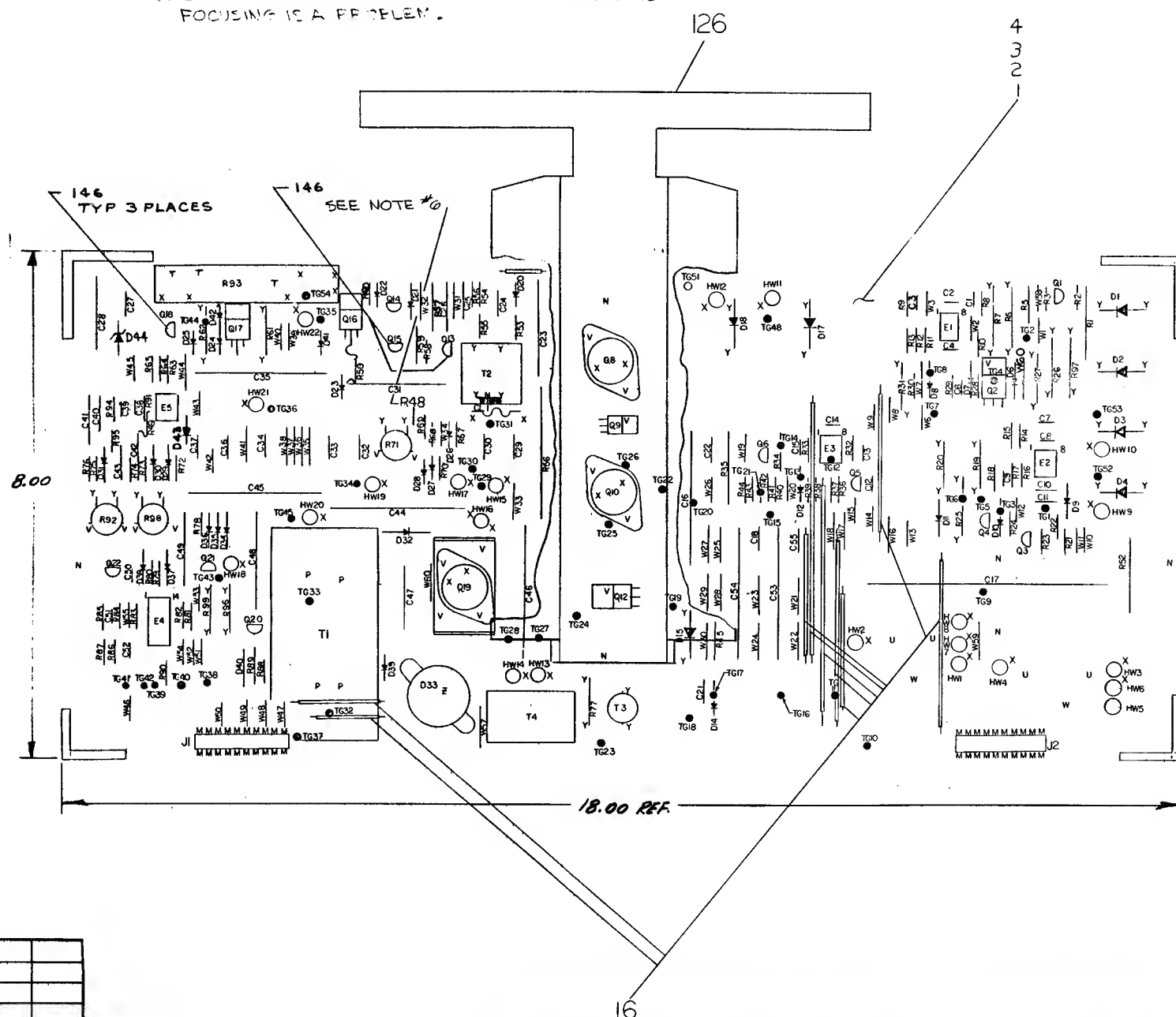
DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST					QUANTITY / VARIATION												
MADE BY P. CAPPABIANCA		CHECKED J. CAHILL		SECTION	VT50-AA	VT50-AB	VT50-AC	VT50-BA	VT50-BB	VT50-BC	VT50-HA	VT50-HB	VT50-HC	VT50-JA	VT50-JB	VT50-JC	
DATE 17-MAR-75		DATE 15-AUG-75		1													
ENG M. MORGANSTERN		PROD D. BEVINS		ISSUED SECT.													
DATE 29-SEP-75		DATE 1-OCT-75		1													
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION															
23	0-UA-7010068-2-0	COPIER ASSEMBLY 100/115V 50HZ				-	-	-	-	-	1	-	-	-	-	-	1
24	0-MD-7412573-0-0	COVER, FIXED				1	1	1	1	1	1	1	1	1	1	1	1
25	E-MD-7412574-1	COVER, COPIER				-	-	-	1	1	1	-	-	-	1	1	1
26	1-AD-7010861-0-0	TRANS. MTG. PLATE ASSY 115V/60HZ				-	-	-	1	-	-	-	-	-	1	-	-
27	1-AD-7010861-1-0	TRANS. MTG. PLATE ASSY 220/240V, 50/60HZ				-	-	-	-	1	-	-	-	-	-	1	-
28	1-AD-7010861-2-0	TRANS. MTG. PLATE ASSY 100/115V, 50/60HZ				-	-	-	-	-	1	-	-	-	-	-	1
29	9006563	NUT, KEP, S.S. #8 - 32				2	2	2	2	2	2	2	2	2	2	2	2
30	C-MD-7413400-0-0	BRACKET COPIER WELL				1	1	1	-	-	-	1	1	1	-	-	-
31	D-CS-5411448-0-1	VT50 EIA ADAPTER (OPTION)				REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF
32	1-IA-7011197-0-0	CRT GROUND ASSEMBLY				1	1	1	1	1	1	1	1	1	1	1	1
33	9007080	CLAMP, CABLE, SCREW MNT 3/16				1	1	1	1	1	1	1	1	1	1	1	1
34	9006304-10	SCREW, SET, SOCKET #8 -32 x 1/2				9	9	9	9	9	9	9	9	9	9	9	9
35	2-MD-7415343-0-0	CLIP, P.S. MTG				2	2	2	2	2	2	2	2	2	2	2	2
36	2-MD-7415342-0-0	CLIP, BD. MTG				1	1	1	1	1	1	1	1	1	1	1	1
37	9009681-03	SCREW, HEX WASHER HD. #10 x 7/8				1	1	1	1	1	1	1	1	1	1	1	1
38	B-MD-7414751-0-0	SUPPORT, FOAM				1	1	1	1	1	1	1	1	1	1	1	1
39	2-MD-7415344-0-0	SCREW, THUMB				5	5	5	5	5	5	5	5	5	5	5	5
40	2-MD-7414797-0-0	CLAMP, CAPACITOR				1	1	1	1	1	1	1	1	1	1	1	1
41	2-MD-7415345-0-0	NUT, WING				7	7	7	7	7	7	7	7	7	7	7	7
42	9009745	SCREW, SLOTTED PAN HD. #4				2	2	2	2	2	2	2	2	2	2	2	2
43	1-AD-7010861-3-0	TRANS. MTG. PLATE ASSY 115V/60HZ				1	-	-	-	-	-	1	-	-	-	-	-
44	1-AD-7010861-4-0	TRANS. MTG. PLATE ASSY 110/115V 50/60HZ				-	1	-	-	-	-	-	1	-	-	-	-
TITLE		UNIT ASSEMBLY		ASSY NO.		SIZE CODE		NUMBER				REV.		ECO NO.			
		VT50		0-UA-VT50-0-0		A PL		VT50-0-0				A					
				SHEET 2 OF 3		DIST.											

DEC FORM DEC 16-(325)-1031-N870  
DRA 110

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			QUANTITY / VARIATION											
PARTS LIST			VT50-AA	VT50-AB	VT50-AC	VT50-BA	VT50-BB	VT50-BC	VT50-HA	VT50-HB	VT50-HC	VT50-JA	VT50-JB	VT50-JC
MADE BY P. CAPPABIANCA		CHECKED J. CAHILL	SECTION 1											
DATE 17-MAR-75		DATE 15-AUG-75	ISSUED SECT. 1											
ENG M. MORGANSTERN		PROD D. BEVINS												
DATE 29-SEP-75		DATE 1-OCT-75												
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION												
45	1-AD-7010861-5-0	TRANS. MTG. PLATE ASSY 22Ø/24ØV, 5Ø/6ØHZ												
46	2-MD-7415346-0-0	COVER, SLIDING												
47	A-DC-7414213-0-0	LABEL, UL												
48	2-IA-7416189-0-0	BRACKET, GROUND												
49	C-IA-7606961	DATA CABLE, VT5Ø												
50	A-PS-3610267	DECAL, HI - VOLTAGE												
51	D-IA-7011868	CABLE EXTENSION												
52	D-CS-5410902-4	TIMING BD., COPIER, ROM UART												
53	D-CS-5410902-2	TIMING BD., ROM UART												
54	9007015	GROMMET, RUBBER												
55	E-MD-7412574-2	COVER, COPIER												
56	9006070-1	SCREW, PAN, PHL., #10 - 32 x 5/16												
57	9006635	WASHER, LOCK, INT. TOOTHED #10												
58	9007031	TIE, CABLE												
59	9006852	SPACER, HEX, ALUM #8 - 32 x .50												
60	9008151	WASHER, LOCK, EXT. TOOTHED #8												
61	9008268	COMPOUND, THERMAL JOINT												
62	9008209	GROMMET, STRIP x 650												
63	9007594	ADHESIVE, RUBBER												
64	1-MD-7413322-0-0	SCREEN, BASE, FRONT												
TITLE		ASSY NO.		SIZE	CODE	NUMBER				REV.	ECO NO.			
UNIT ASSEMBLY		Ø-UA-VT5Ø-Ø-Ø		A	PL	VT5Ø-Ø-Ø				A				
		SHEET 3 OF 3		DIST.										

1. THERE IS NO ETCH BETWEEN T1 AND D33
2. ETCH 5 PUNCH/DRILL FOR T05 AND T0220
3. CURRENT LOOP 4 INCH LENGTH 22 AWG WIRE
4. ~~ETCH BUT DO NOT INSERT~~
5.  MUST BE CONNECTED TO A POINT GROUND
6. ECO\*5 IS IMPLEMENTED ONLY ON BOARDS WHERE FOCUSING IS A PROBLEM.

LEGEND	
VARIATION	DESCRIPTION
5410886-0-0	BASIC VT50
5410886-1-0	HEAT CYCLED, SYSTEM TESTED 5410886-0



REF		X-Y COORDINATE HOLE LOCATION	K-CO-5410886-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	0-AH-5410886-0-5	2
REF		MODULE ECO HISTORY	B-MH-5410886-0-6	3
1		ETCH CIRCUIT 80A00	5010885	4
1	C50,52	CAP 100 PF 100V 5% OM	1000016	5
2	C9,38	CAP 470 PF 100V 5% OM	1000024	6
2	C25,40	CAP .33 UF 20V 10% S.TANT	1005328	7
1	C41	CAP 6.8 UF 35V 10% S.TANT	1005306	8
1	C26	CAP 15 UF 20V 10% S.TANT	1004812	9
1	C42	CAP 1 UF 35V 10% S.TANT	1001776	10
1	C43	CAP .47 UF 35V 10% S.TANT	1005985	11
1	C31	CAP .47 UF 100V 10% MYLAR	1000040	12
1	C39	CAP 270 PF 100V 5% OM	1000022	13
2	C28,49	CAP 25 UF 25V 5% AL EL	1000075	14
A/R		WIRE 22 AWG	9107776	15
1	C17	CAP 1900 UF 40V	1011607	16
6	C4,6,7,11,12,14,	CAP .01 UF 100V 20% 01SC	1001810-1	19
4	C55,21,18,22	CAP .1 UF 100V 20% 01SC	1000030	20
9	C29,32,33,36,30,34,24,37, C27	CAP .022 UF 600V	1011846	21
4	C44,35,45,16	CAP 1000UF 16V	1011849-02	22
2	C23,48	CAP 25 UF 150V	1011849-00	23
1	C47	CAP .068 UF 600V	1011847	24
1	C46	CAP 7.0 UF 200V	1011848	25
2	C53,54	CAP 600 UF 25V	1011849-01	26
2	C2, C51	CAP 180 PF 100V 5% DM	1000020	27
1	C46	CAP 12.0 UF 200V	1011848-02	28
1	D44	DIODE IN967A	1110068	29
1	D6	DIODE IN4732A 4.7V	1105138	30
4	021,38,37,43	D100E 0672	1105275	31
8	022,27,28,25,24,23,041,D42	D100E IN4004	1105796	32
2	040,7	D100E IN752 A 5.8V 5% ZENER	1102888	33
3	034,35,36	D100E IN9648 13V 5% ZENER	1109988	34
5	01,23,4,15	D100E IN5624	1110420	35
2	017,18	D100E MR752	1110615	36
3	08,9,14	D100E 4M5,1Z1 5.1V 1% ZENER	1105873	37
1	012	D100E IN754A 6.8V 5% ZENER	1109991	38
4	D31, 10,29,30,	D100E 0664	1100114	39
1	011	D100E IN4730A 2.4V 5% ZENER	1101938	40
1	D32	DIODE MR852	1109634-01	41
2	039,20	D100E MR812	1111854-00	42
1	026	D100E MR817	1111854-01	43
1	033	D100E H-V D100E ASSY (20KV)	11-12553	44
1		HOBSON P92 CAP	1212126	45
2		TIE WRAP	90Q7031	46
1	R28	RES. 5.6K, 1/4W, 5%	1301874	47
1	R61	RES. .47,2W,5%	1305258	48
1	R73	RES. 5.1 1/4W 5%	1309422	49
2	R63,R50	RES. 27 1/4W 5%	1301522	50
1	R55	RES. 220 1/4W 5%	1300271	51
3	R79,74,88	RES. 330 1/4W 5%	1300295	52
1	R59	RES. 390 1/2W 5%	1300308	53
1	R57	RES. 47 1W 5%	1302199	54

DEC 741				4	7		
DEC LM301						4	7
IC TYPE	GND	+5V	-12	+15	-V	+V	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY EXCEPTIONS ARE STATED ABOVE							
IC PIN LOCATIONS							

[illegible]

FIRST USED ON OPTION MODEL		QTY		REF DESIGNATION		DESCRIPTION		PART NO.		REV.	
VT50		ETCH BOARD REV		D		PARTS LIST					
						DRN		DATE		TITLE	
						CHK'D		DATE		digital EQUIPMENT CORPORATION	
						ENG		DATE		MAYNARD MASSACHUSETTS	
						PROJ. ENG		DATE		MONITOR POWER SUPPLY	
						PROD		DATE			
						NEXT HIGHER ASSY					
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SCALE		REV.	
								SIZE CODE		NUMBER	
								DCS		5410866-0-1	
								SHEET		OF	
								DIST.			
SEMICONDUCTOR CONVERSION CHART											



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D

C

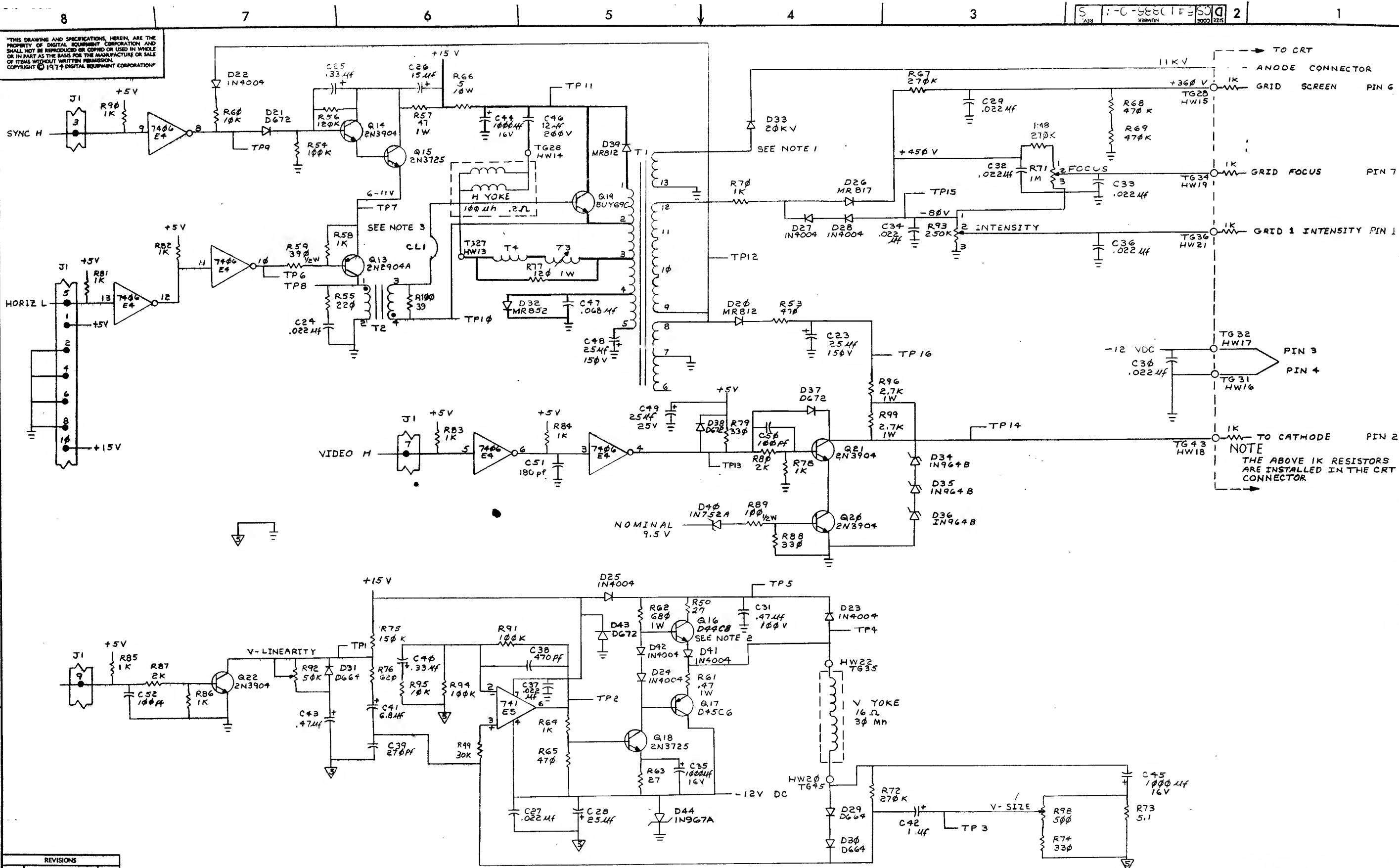
B

A

REVISIONS				REVISIONS				REVISIONS			
CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.	CHK	CHANGE NO.	REV.
EV	5410386-00012	P		5410886-00013	R	EV	5410886-00014	S			
J. Bensen 21 April 76				G. Vanden 9 JUNE 76				M. Whittlesey 25 JUN 76			
M. WHITTLESEY				M. WHITTLESEY				M. WHITTLESEY			
2 P. 5-10-76				R. P. 8-16-76				Y. P. 7-8-76			

QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.	QTY	REF	DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
						TITLE MONITOR POWER SUPPLY					
						SIZE CODE DCS5410886-V-1					
						NUMBER 1					
						REV. S					
						SCALE SHEET OF 5					
						DIST.					

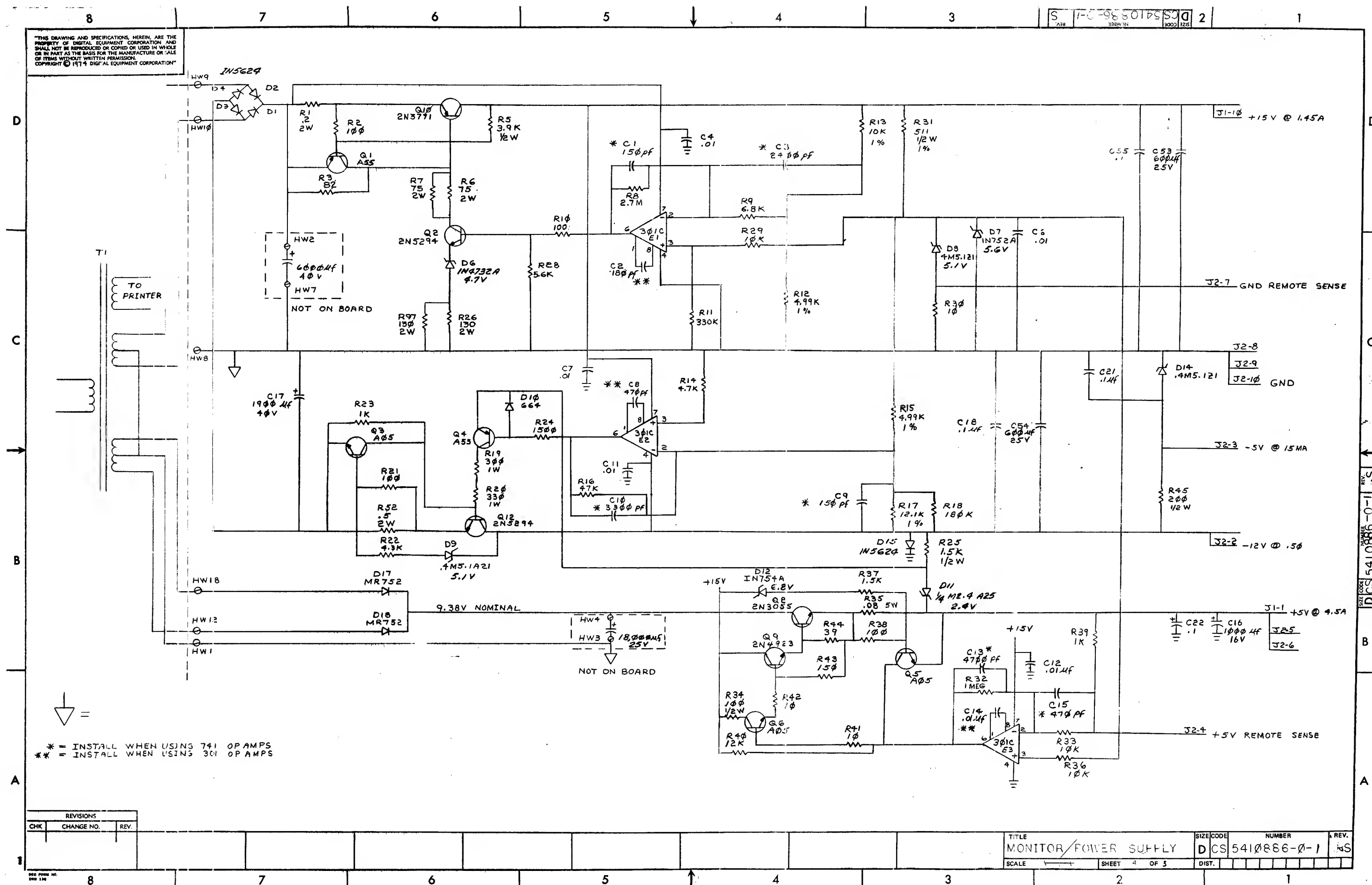
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
MONITOR/POWER SUPPLY		DCS	5410886-0-1	*S
SCALE	SHEET	3 OF 5	DIST.	

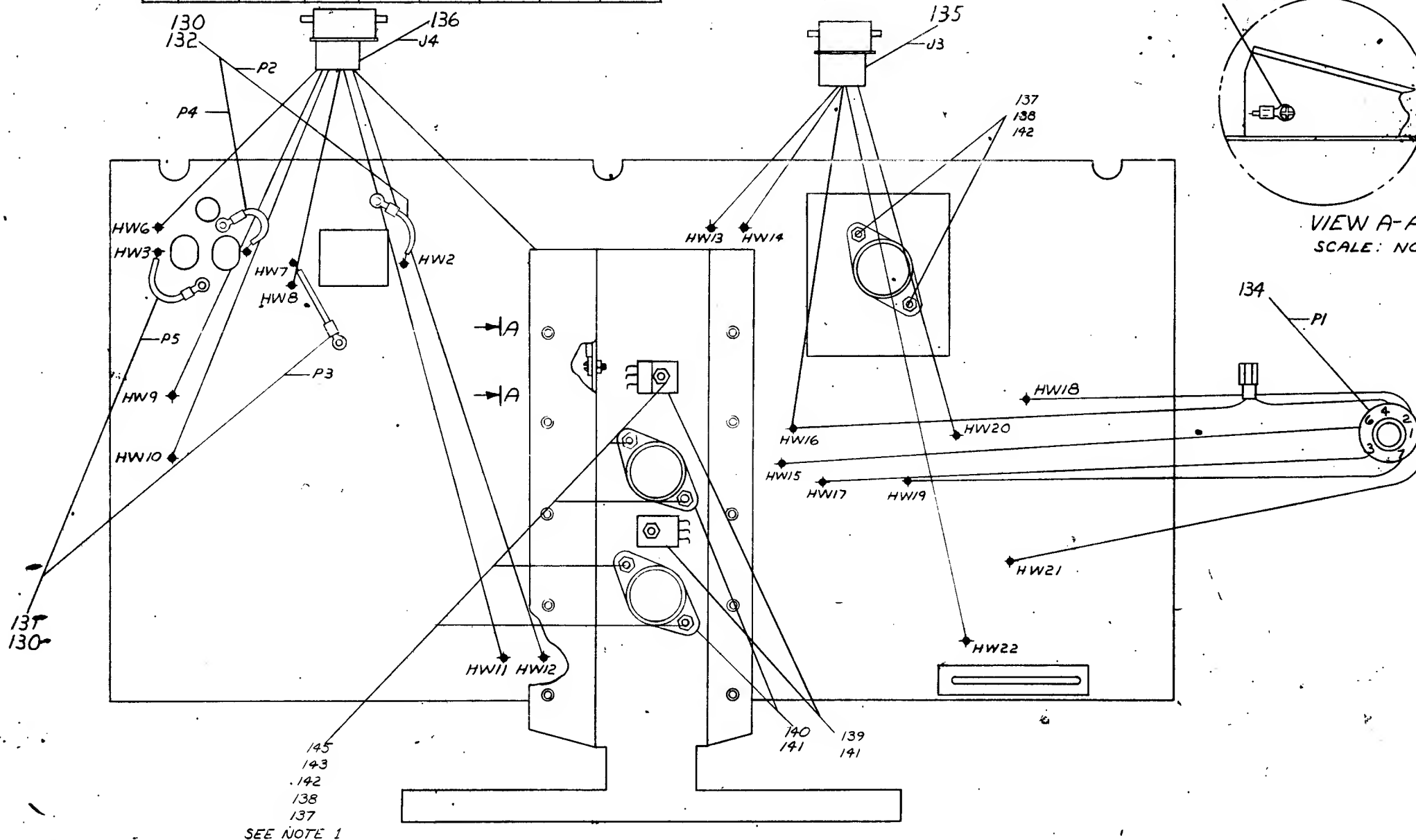




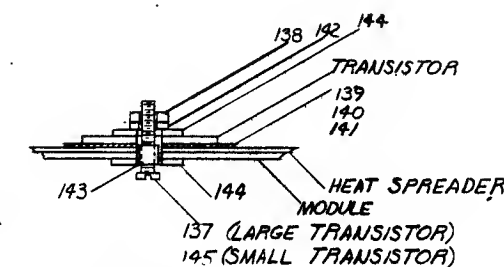
WIRE TABLE									
ITEM NO.	AWG.	COLOR	POINT	CONN	WITH	POINT	CONN	WITH	
136	18	GRN	---	J4-1	---	PC-HW6	SOLD		
		GRN	---	J4-2	---	GND	SEE VIEW A-A		
		VIO	---	J4-4	---	PC-HW12	SOLD		
		VIO	---	J4-5	---	PC-HW11			
		BLUE	---	J4-7	---	PC-HW10			
		BLUE	---	J4-8	---	PC-HW9			
		BLU/BLK	---	---	---	PC-HW1			
136		VIO/BLK	---	J4-6	---	PC-HW8			
135	18	GRN	---	J1-1	---	PC-HW5			
	22	BLK	---	J1-3	---	PC-HW20			
	TWP	RED	---	J1-6	---	PC-HW22			
	22	WHT	---	J1-5	---	PC-HW14			
135	TWP	BLUE	---	J1-2	---	PC-HW13	SOLD		

WIRE TABLE									
ITEM NO.	AWG.	COLOR	POINT	CONN	WITH	POINT	CONN	WITH	WIRE LENGTH
134	22	GRN	PI-1	---	---	---	PC-HW21	SOLD	
		YEL	PI-2	---	---	---	PC-HW18		
		BRN	PI-3	---	---	---	PC-HW17		
		BLK	PI-4	---	---	---	PC-HW16		
		RED	PI-6	---	---	---	PC-HW15		
134	22	BLUE	PI-7	---	---	---	PC-HW19		
131	18	BLK	---	---	---	ITEM 130	PC-HW3		76.2 MM
131	18	BLK	---	---	---	---	PC-HW7		76.2 MM
132	18	RED	---	---	---	---	PC-HW4		76.2 MM
132	18	RED	---	---	---	ITEM 130	PC-HW2	SOLD	76.2 MM

- NOTE 1. SHOWN BELOW IN VIEW B-B IS A VIEW OF THE SCREW ASSY FOR ALL SIX (6) MOUNTING SCREWS.
2. ITEM 145 IS A SHORTER SCREW AND IS REQUIRED WITH A DIFFERENT TRANSISTOR.



VIEW A-A  
SCALE: NONE



VIEW B-B  
SCALE: NONE

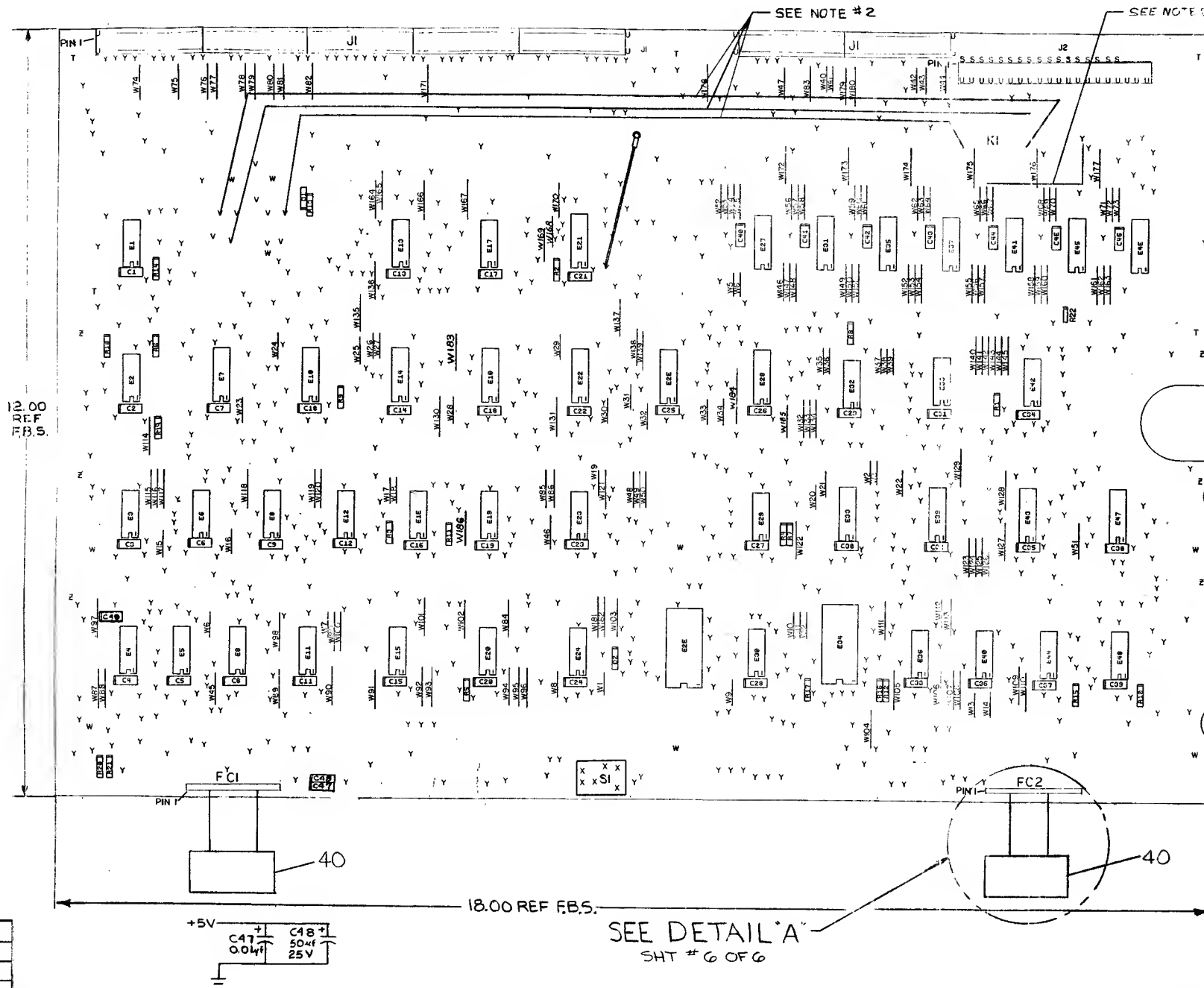
REVISIONS		
CHK	APPROVE NO.	REV.

TITLE POWER SUPPLY MONITOR		SIZE CODE	NUMBER	REV.
SCALE 1:1		DCS	5410886-0-1	S
SHEET 5 OF 5				

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**NOTES:**

1. 5410906-1 IS THE HEAT AND SYSTEM TESTED 5410906-0.
2. WIRES ADDED FOR RELOCATION OF K1 (ITEM #9)  
SEE AHDWG FOR FEMORE DETAILS.



REF	QTY	REL. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
			X-Y COORDINATE HOLE LOCATION	K-CO-5410906-4	1
			ASSY/DRILLING HOLE LAYOUT	E-AH-5410906-5	2
			MODULE ECO HISTORY	B-MH-5410906-6	3
			ETCHED CIRCUIT BOARD	5010905	4
			CAPACITOR 50uf 25V	1001796	5
			CAPACITOR -01 DISC	1001610-01	6
			DIODE 0664	1100114	7
			SLIDE SWITCH	1210919	8
			RELAY PHILIPS 12V DC 19A111 AE	1212049-0-0	9
			11 PIN SIDE ENTRY AMP CONNECTOR	1211851	10
			19 PIN BOTTOM ENTRY AMP CONNECTOR	1211850	11
			RESISTOR 100 OHM 1/4W 5%	1300229	12
			RESISTOR 1K 1/4W 5%	1300365	13
			RESISTOR 4 7K 1/4W 5%	1300447	14
			RESISTOR 470 1/4W 5%	1300316	15
			RESISTOR 47 1/4W 5%	1300202	16
			IC DEC 7495	1909055	17
			IC DEC 7400	1905575	18
			IC DEC 74H50	1904060	19
			IC DEC 74157	1910655	20
			IC DEC 74193	1910019	21
			IC DEC 7485	1910224	22
			IC DEC 8242	1909712	23
			IC DEC 7474	1905547	24
			IC DEC 74H10	1909057	25
			IC DEC 7404	1909686	26
			IC DEC 7408	1910741	27
			IC DEC 74150	1910153	28
			IC DEC 7442	1910046	29
			IC DEC 74155	1910856	30
			IC DEC 74H11	1909287	31
			IC DEC 7402	1909004	32
			IC DEC 2102-1 1024 X 1 RAM	2111318-1	33
			IC DEC 2513 24 PIN CHAR GEN	23000A7-01	34
			EYELET	9007831	35
			JUMPERS	9007560-01	36
			24 PIN IC SOCKET	1210093	37
			WIRE, 30 AWG, INSULATED	9105740	38
			JUMPERS, INS	9009185	39
			CABLE ASSY,	CAD-7011144-00	40
			TERMINAL	9007930	41
			WIRE, 18 AWG, INSULATED	9107360-55	42
			CAP 82pF 100V 5%	1000015	43
			JUMPERS, INS	9009185	44

DCS 5410906-0-1

B

ETCH BOARD

DRN. M. S.

CHKD. R. J. Duckert

ENG. M. J. Duckert

PROG. ENG. M. J. Duckert

PROG. M. J. Duckert

INT. T. HIGHER ASSY

B-DD-VT50-0

SCALE 1 OF 1

DATE 4 NOV 74

DATE 1 JAN 75

DATE 1 JAN 75

DATE 1 JAN 75

DATE 1 JAN 75

DATE 1 JAN 75

DATE 1 JAN 75

DATE 1 JAN 75

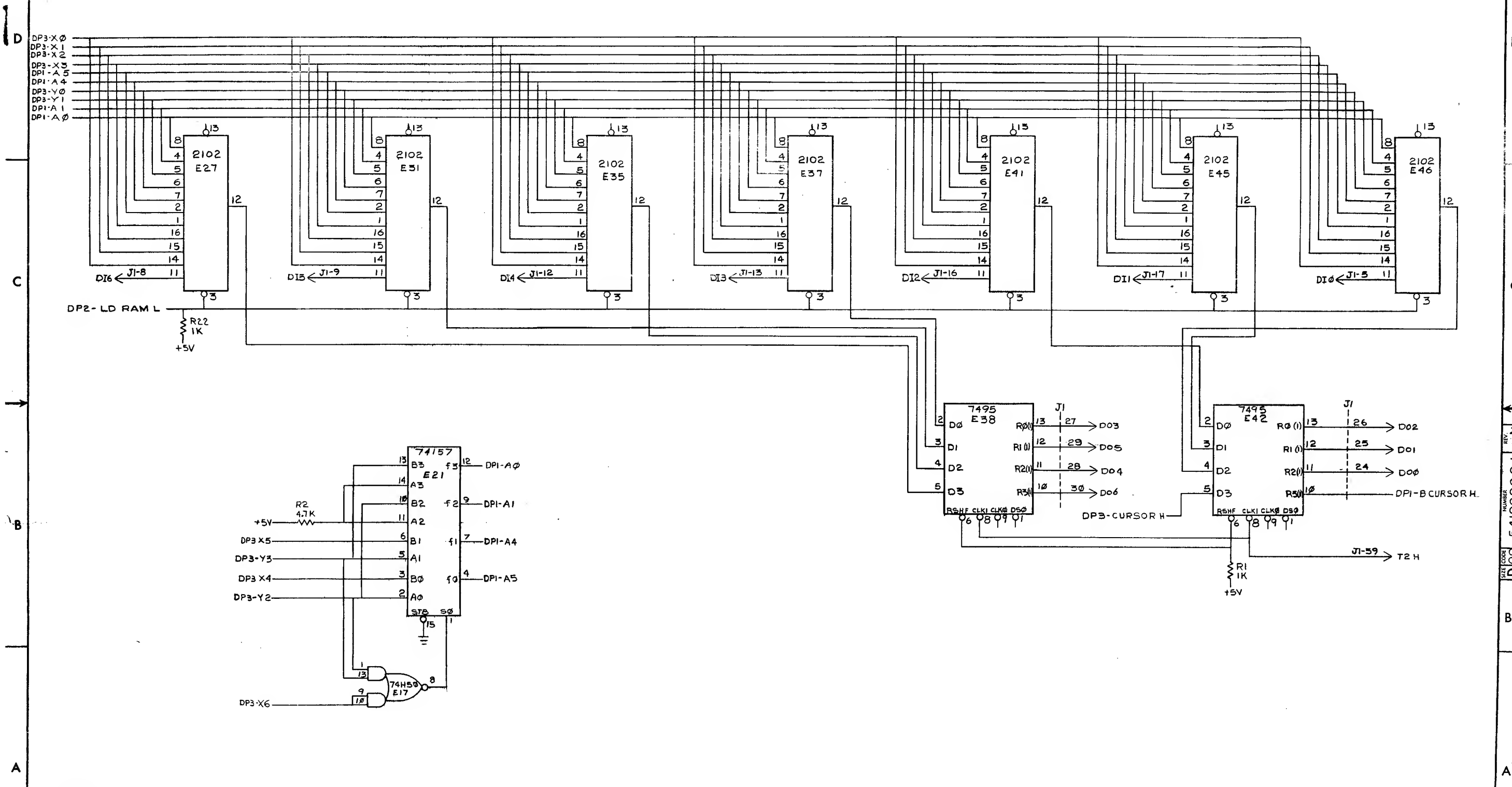
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TITLE DATA PATHS  
MEMORY AND DECODER

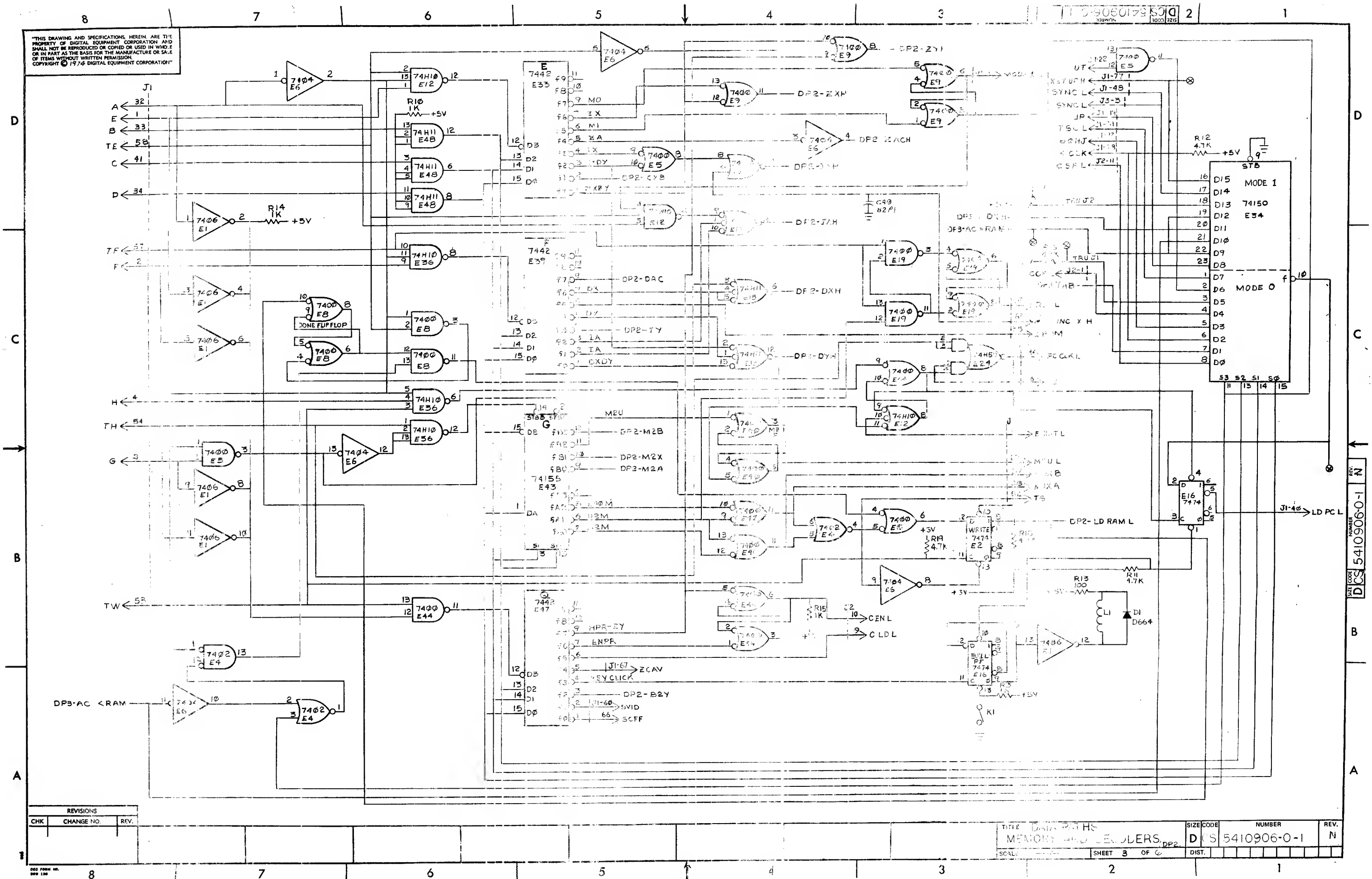
SIZE CODE NUMBER REV.

D CS 5410906-0-1 A N

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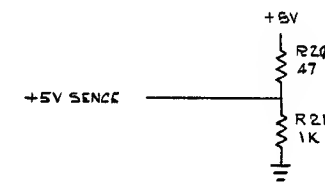
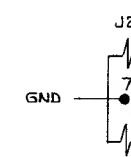
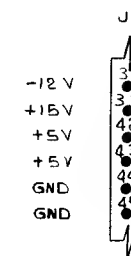
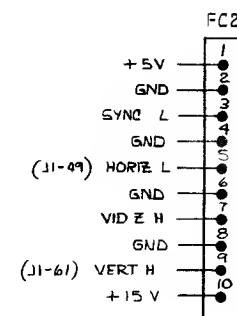
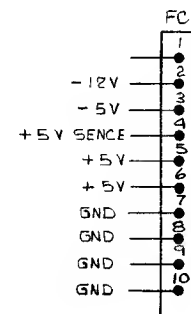
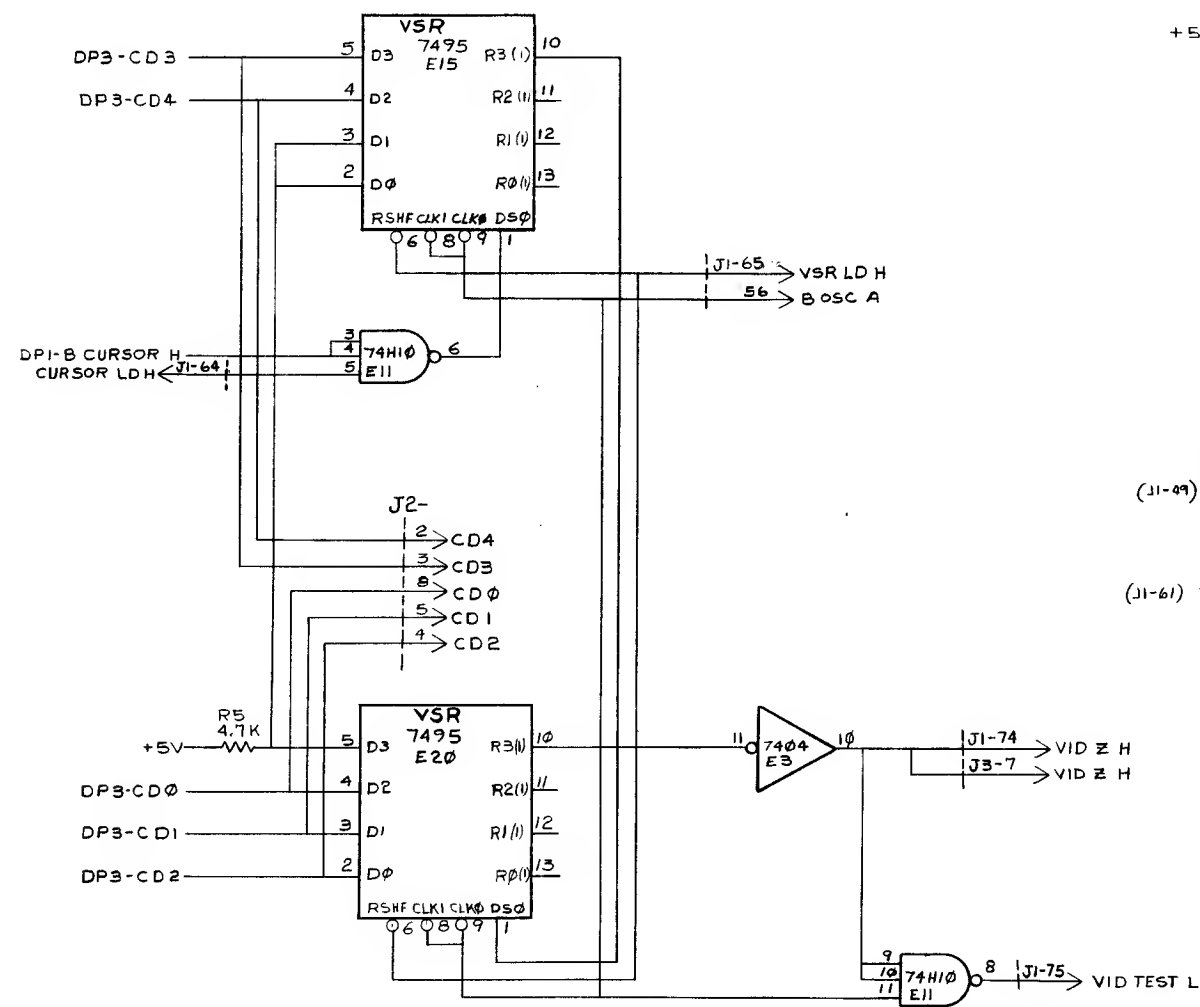
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CHK	CHANGE NO.	REV.







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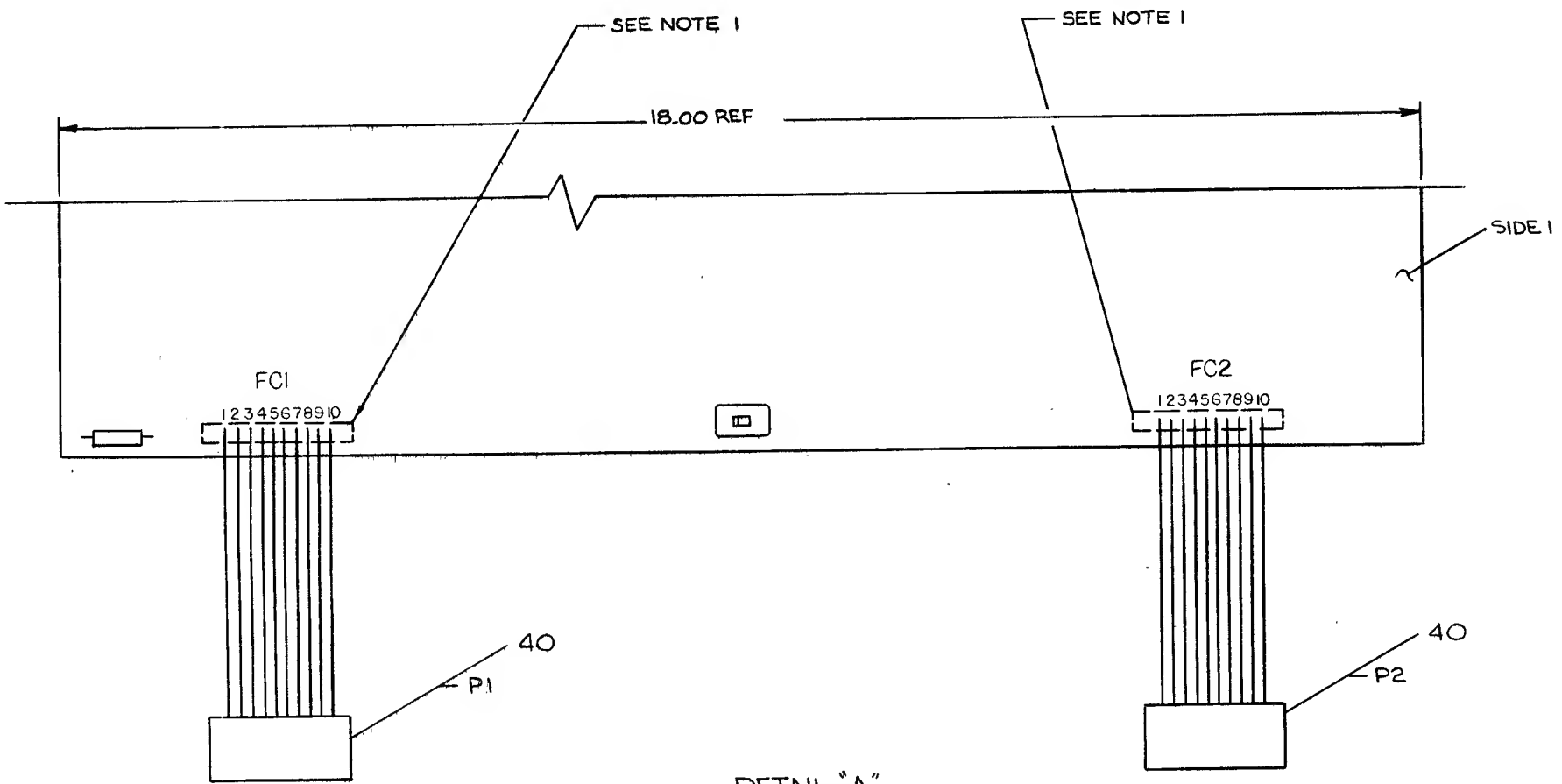


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CHK	CHANGE NO	REV

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WIRE TABLE				
ITEM NO	DESCRIPTION		FROM	TO
	AWG	COLOR	CONNECTION	CONNECTION
40	22	BLK	_____	FC1-1
↑	↑	BRN	_____	2
		RED	_____	3
		ORN	_____	4
		YEL	_____	5
		GRN	_____	6
		BLU	_____	7
		VIO	_____	8
		GRY	_____	9
40		WHT	_____	FC1-10
40		BLK	_____	FC2-1
↑		BRN	_____	2
		RED	_____	3
		ORN	_____	4
		YEL	_____	5
		GRN	_____	6
		BLU	_____	7
		VIO	_____	8
		GRY	_____	9
40	22	WHT	_____	FC2-10

NOTES:  
1. APPLY HOT MELT ADHESIVE (4901185-00).

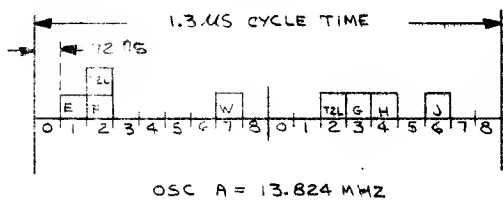


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SCALE: NONE

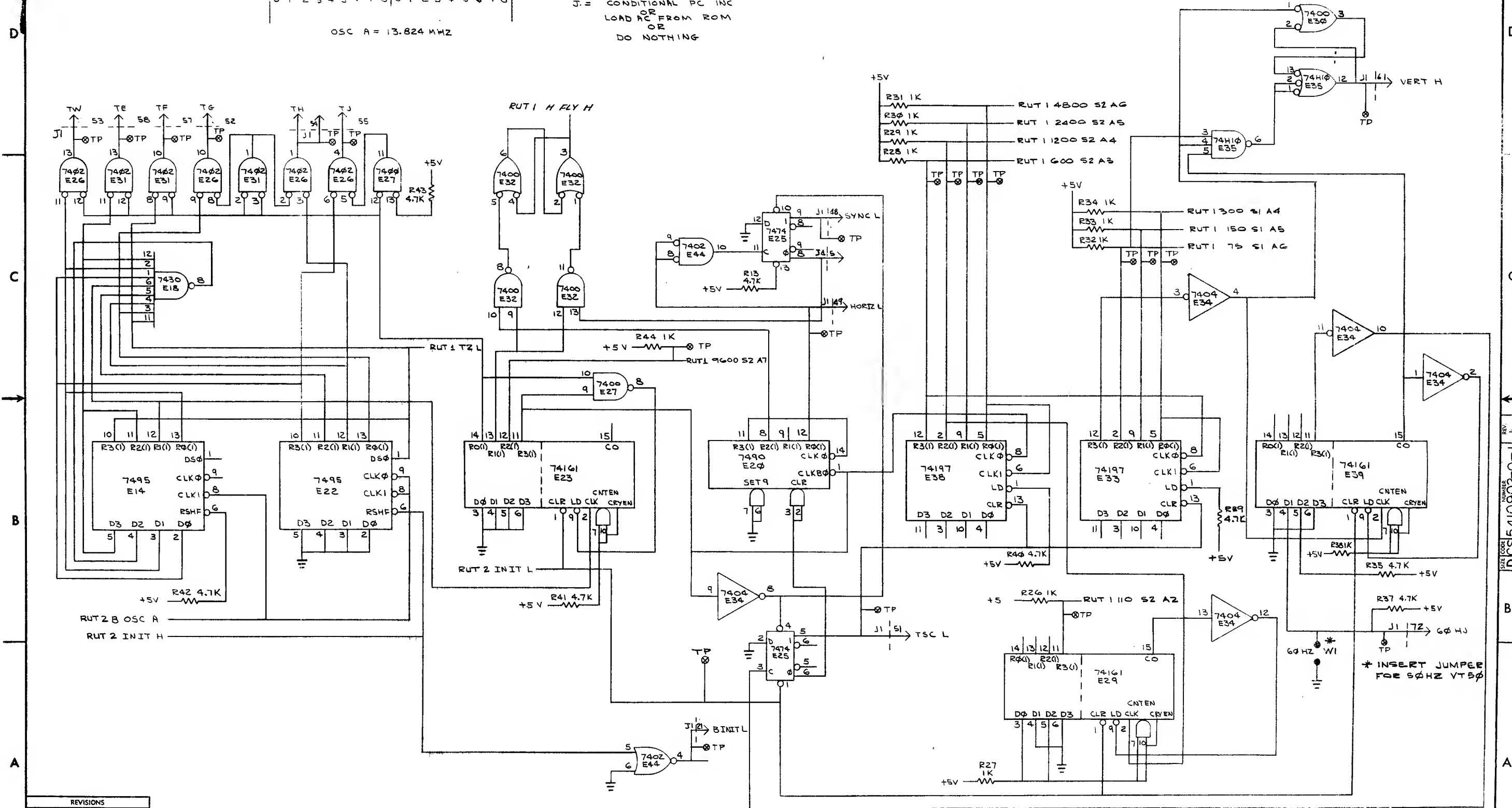
REVISIONS		
CHK	CHANGE NO.	REV.

DEC FORM NO.  
5010-108-0

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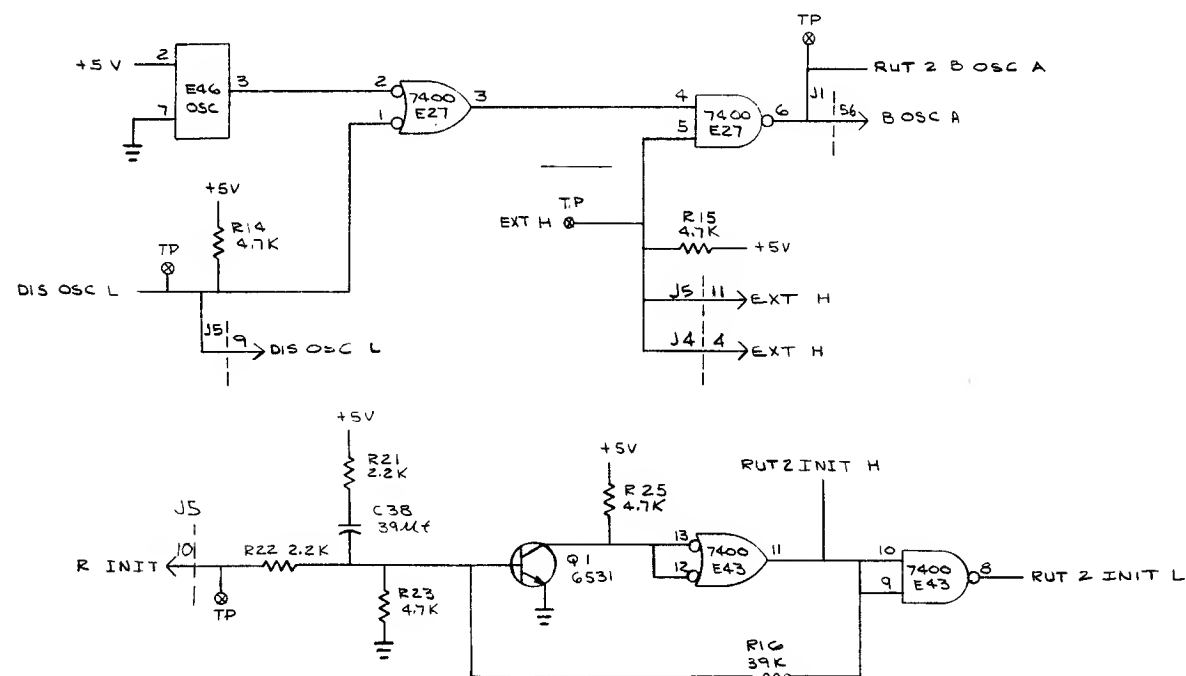
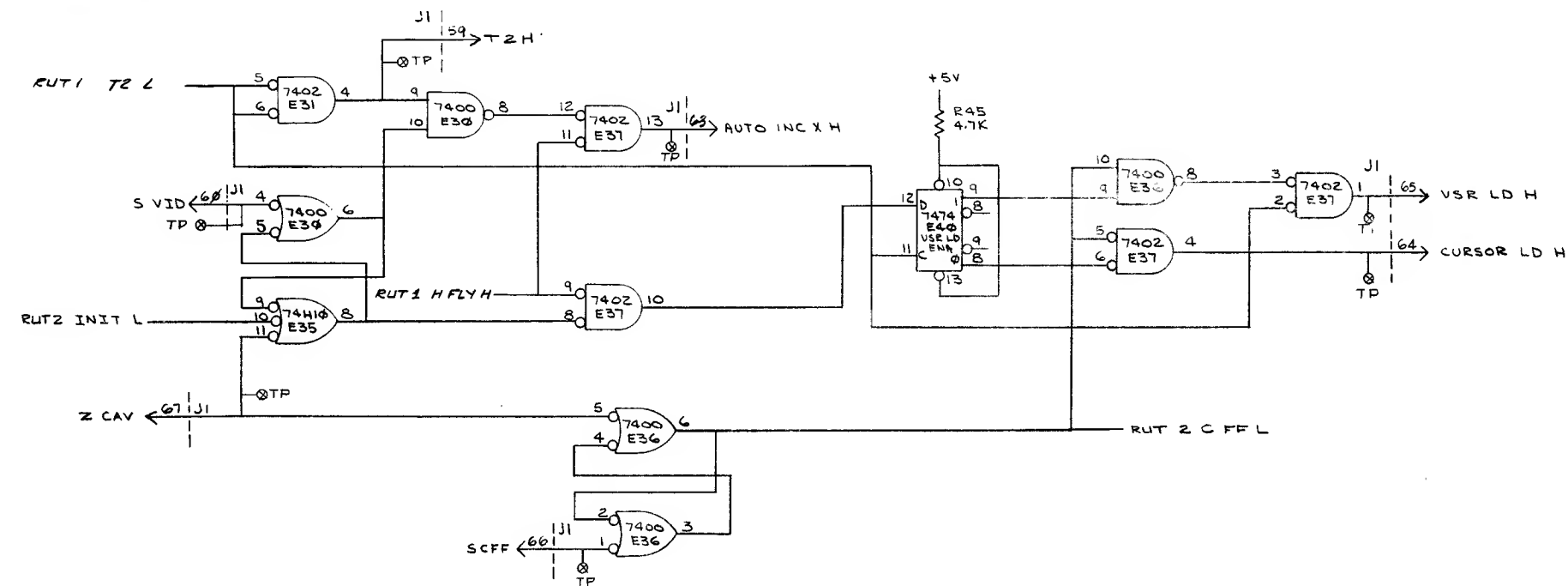
- E = DO "E" INSTRUCTIONS
- F = DO "F" INSTRUCTIONS
- W = WRITE ENABLE, IF SELECTED
- G = CLEAR WRITE FLOP
- H = TEST FLAGS, INC PC
- J = CONDITIONAL PC INC
- OR
- LOAD AC FROM ROM
- OR
- DO NOTHING



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		ROM UART & TIMING (RUT 1)	SIZE CODE	NUMBER	REV.
SCALE		SHEET 2 OF 5	DIST.		

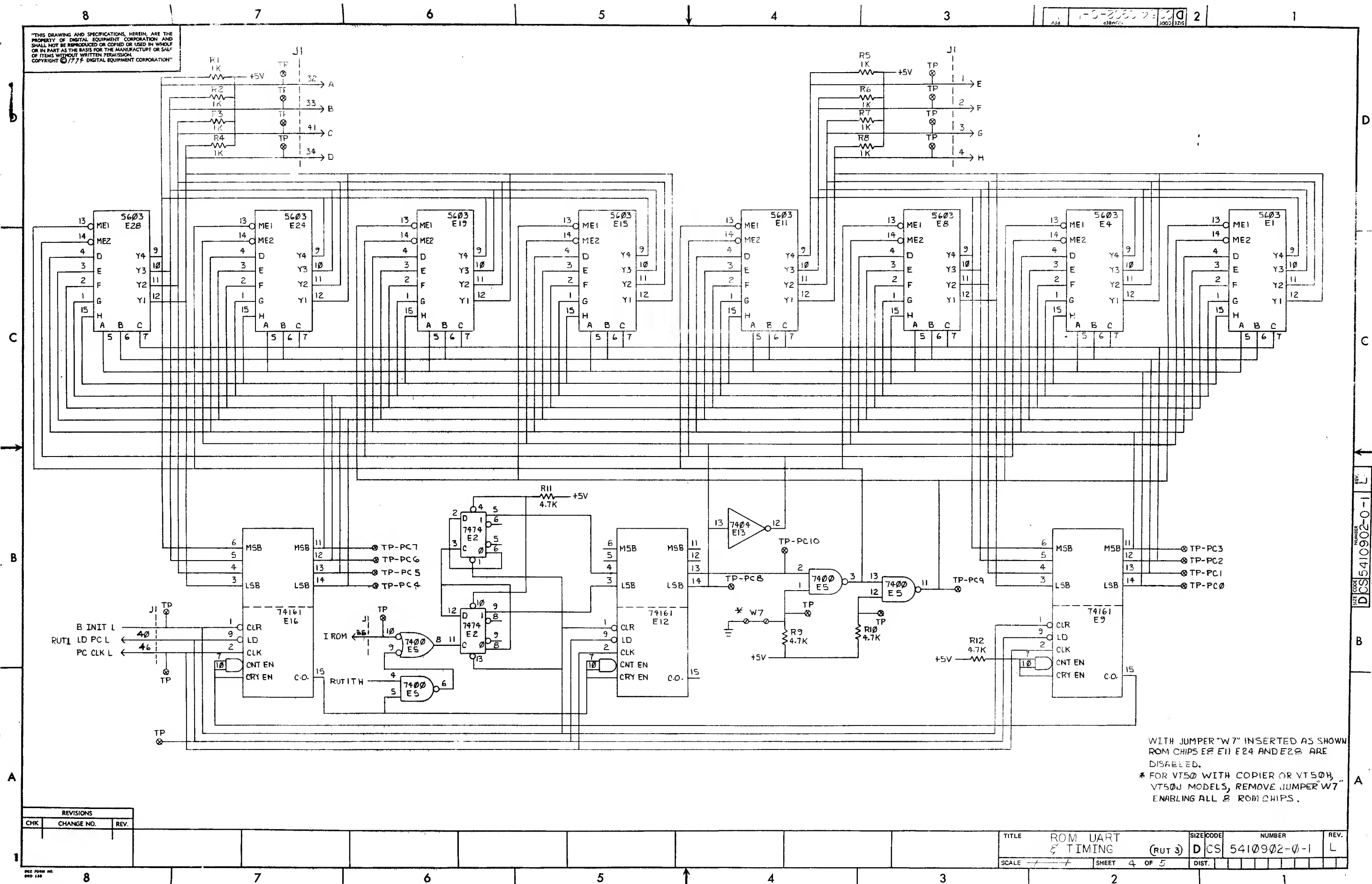
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REVISIONS		
CHK	CHANGE NO.	REV

										TITLE		ROM UAR		SIZE CODE		NUMBER		REV	
										& TIMING		(RUT 2)		D CS		5410902-0-1		L	
										SCALE		1/1		SHEET		3 OF 5		DATE	

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REVISIONS		
CHK	CHANGE NO.	REV.

P&C Form No. P&C 138							
8	7	6	5	4	3	2	1



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\* NOTE: JUMPER W3 INSTALLED & JUMPER W2 CUT FOR 5410902-2 (VT50H, VT50J) VARIATION ONLY

NOTE: JUMPER W4 INSTALLED ON 5410902-2 (VT50H, VT50J) VARIATION ONLY

D

D

C

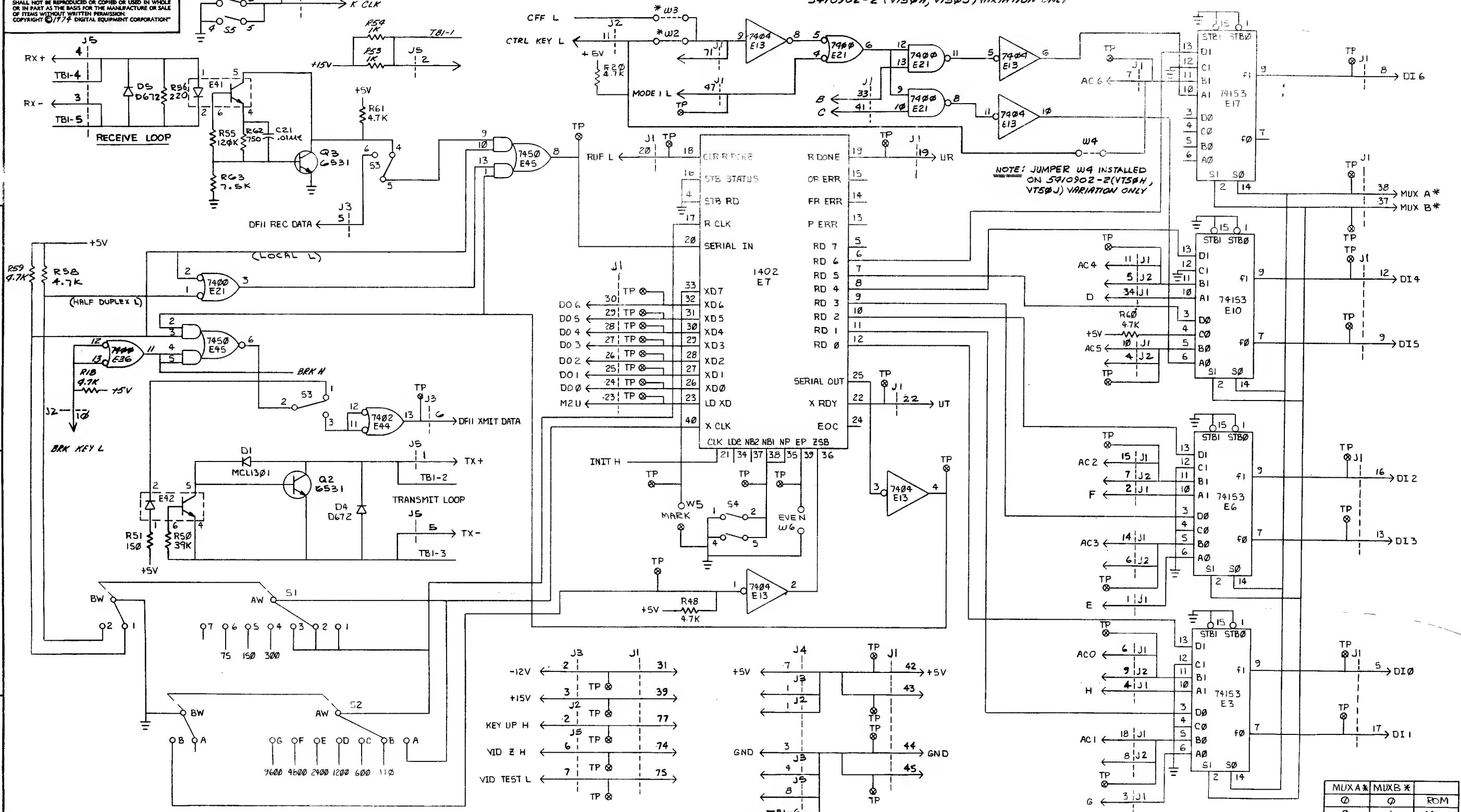
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B

B

A

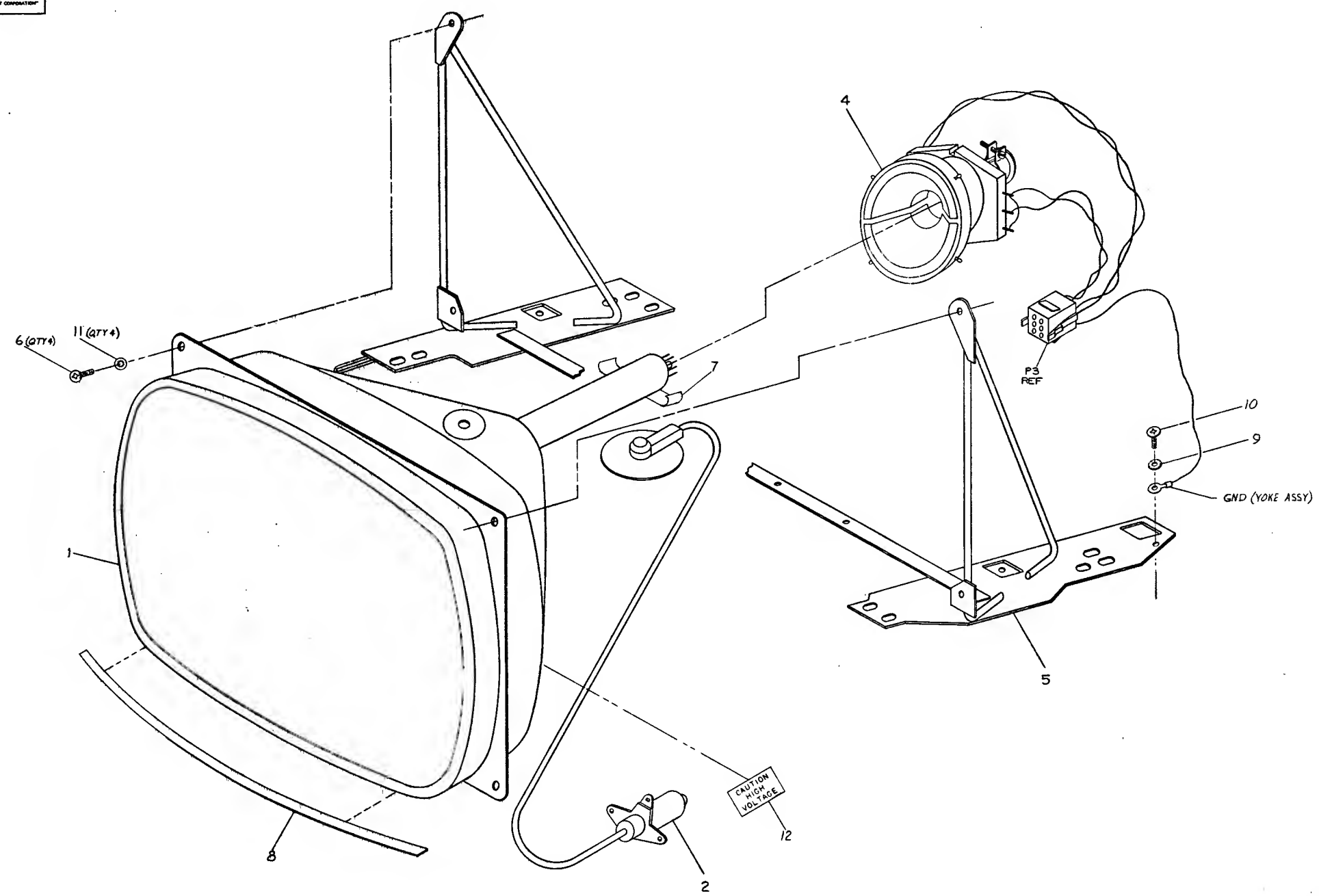
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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		ROM, UART & TIMING	SIZE CODE	NUMBER	REV.
SCALE		SHEET 5 OF 5	D CS	5410902-0-1	L

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METRIC DIMENSIONS

1	DECAL, HIGH VOLTAGE	3610267	12
4	LOCKWASHER, INT. THT	9006635	11
1	SCREW, MACH. #6-32	9006022-1	10
1	LOCKWASHER, EXT. THT	9007649	9
1/4	TAPE, GREEN	9007834	8
1/4	TAPE, GRAY, DULT	9009339	7
4	SCREW, TRUSS HD, MACH	9006037-3	6
1	WIREFORM, CRT	1-IA-7415319-0	5
1	ASSEMBLY, YOKE	2-IA-7010900-0	4
4	SCREW, MACH. #6-32	9006022-1	3
1	TUBE, CATHODE RAY	1211901	1

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS			
ANGLES			
CLASS OF FINISH			
SURFACE QUALITY			
MICROFINISHES			
DIM. APPROPRIATE			
CHECKED BY			
ENG. R. GIRARD			
PROD. D. BLVINS			
DO NOT SCALE DWG			
NEXT HIGHER AS			
D-2150-VT50-0-0			
SCALE			
SHEET			

REV.	DATE	BY	DESCRIPTION
1	11/15/75	A	VT50-0002
2	11/15/75	A	REVISED FREQUENCY
3	11/15/75	A	REVISED FREQUENCY
4	11/15/75	A	REVISED FREQUENCY
5	11/15/75	A	REVISED FREQUENCY
6	11/15/75	A	REVISED FREQUENCY
7	11/15/75	A	REVISED FREQUENCY
8	11/15/75	A	REVISED FREQUENCY
9	11/15/75	A	REVISED FREQUENCY
10	11/15/75	A	REVISED FREQUENCY
11	11/15/75	A	REVISED FREQUENCY
12	11/15/75	A	REVISED FREQUENCY

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	DECAL, HIGH VOLTAGE	3610267	12
4	LOCKWASHER, INT. THT	9006635	11
1	SCREW, MACH. #6-32	9006022-1	10
1	LOCKWASHER, EXT. THT	9007649	9
1/4	TAPE, GREEN	9007834	8
1/4	TAPE, GRAY, DULT	9009339	7
4	SCREW, TRUSS HD, MACH	9006037-3	6
1	WIREFORM, CRT	1-IA-7415319-0	5
1	ASSEMBLY, YOKE	2-IA-7010900-0	4
4	SCREW, MACH. #6-32	9006022-1	3
1	TUBE, CATHODE RAY	1211901	1

REV.	DATE	BY	DESCRIPTION
1	11/15/75	A	VT50-0002
2	11/15/75	A	REVISED FREQUENCY
3	11/15/75	A	REVISED FREQUENCY
4	11/15/75	A	REVISED FREQUENCY
5	11/15/75	A	REVISED FREQUENCY
6	11/15/75	A	REVISED FREQUENCY
7	11/15/75	A	REVISED FREQUENCY
8	11/15/75	A	REVISED FREQUENCY
9	11/15/75	A	REVISED FREQUENCY
10	11/15/75	A	REVISED FREQUENCY
11	11/15/75	A	REVISED FREQUENCY
12	11/15/75	A	REVISED FREQUENCY

QTY	DESCRIPTION	DWG. PART NO.	ITEM NO.
1	DECAL, HIGH VOLTAGE	3610267	12
4	LOCKWASHER, INT. THT	9006635	11
1	SCREW, MACH. #6-32	9006022-1	10
1	LOCKWASHER, EXT. THT	9007649	9
1/4	TAPE, GREEN	9007834	8
1/4	TAPE, GRAY, DULT	9009339	7
4	SCREW, TRUSS HD, MACH	9006037-3	6
1	WIREFORM, CRT	1-IA-7415319-0	5
1	ASSEMBLY, YOKE	2-IA-7010900-0	4
4	SCREW, MACH. #6-32	9006022-1	3
1	TUBE, CATHODE RAY	1211901	1

REV.	DATE	BY	DESCRIPTION
1	11/15/75	A	VT50-0002
2	11/15/75	A	REVISED FREQUENCY
3	11/15/75	A	REVISED FREQUENCY
4	11/15/75	A	REVISED FREQUENCY
5	11/15/75	A	REVISED FREQUENCY
6	11/15/75	A	REVISED FREQUENCY
7	11/15/75	A	REVISED FREQUENCY
8	11/15/75	A	REVISED FREQUENCY
9	11/15/75	A	REVISED FREQUENCY
10	11/15/75	A	REVISED FREQUENCY
11	11/15/75	A	REVISED FREQUENCY
12	11/15/75	A	REVISED FREQUENCY

ASSEMBLY, CRT

D-2150-VT50-0-0

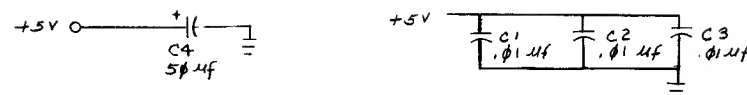
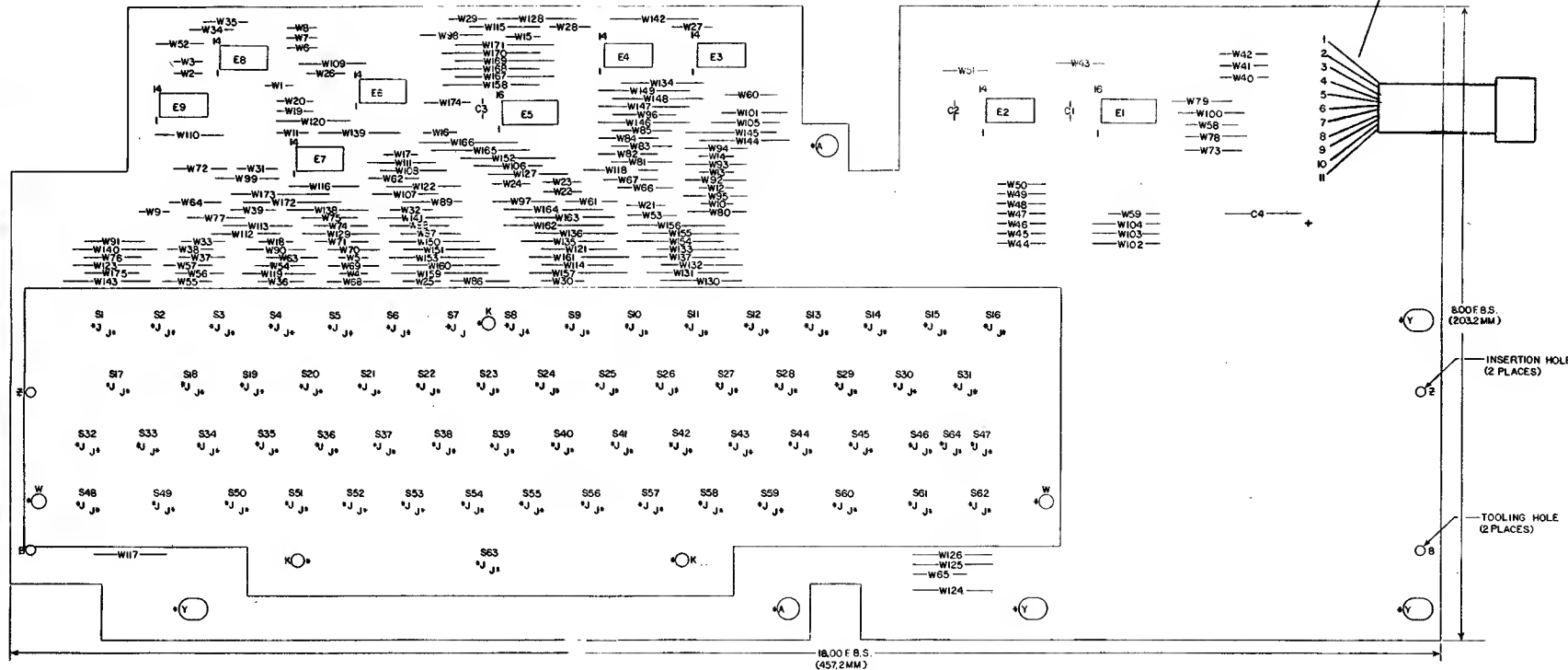
SCALE

SHEET

**NOTES:**

LEGEND	
NUMBER	VARIATION
5410893-0-0	BASIC VT50
5410893-1-0	HEAT CYCLE SYSTEM TESTED 5410893-0

REF		X-Y COORDINATE HOLE LOCATION	K-CO-5410893-0-4	1
REF		ASSY/DRILLING HOLE LAYOUT	E-AH-5410873-0-5	2
REF		MODULE ECO HISTORY	B-UH-5410893-0-6	3
1		ETCHED CIRCUIT BOARD	5010894	4
3	C1, C2, C3	CAP .01uF, 100V, 20% DISC	1001610-01	5
A/R	W1 THRU W227	WIRE,BUZZ #22 AWG	9107560-01	6
1	S1	KEYBOARD HI TEK	7009892	7
7	E2,E3,E4,E6,E7, E8,E9	IC DEC 7430	1905578	8
1	E5	IC DEC 74151	1909936	9
1	E1	IC DEC 7442	1910046	10
1		HI TEK KEYCAPS	12-12287-C5	11
1	FC1	CABLE ASSY	D-IA-7010912-0-0	12
1	C4	CAP 50 uF, 25V	1001796	13
1		SPACE BAR, BLUE	7009939-01	14
1		KEYCAPS, HI TEK	1212287-E1	15

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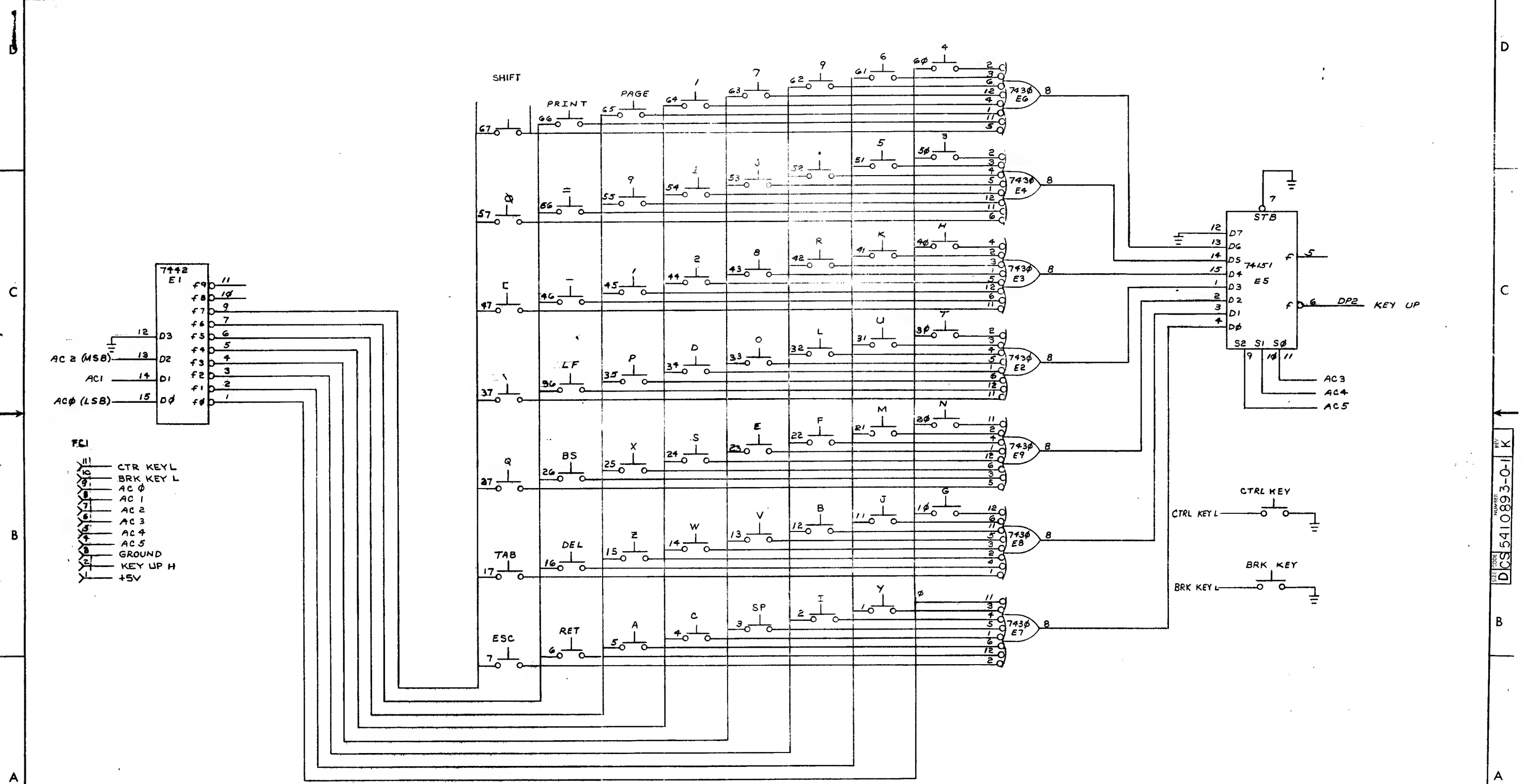
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PARTS LIST					
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		DRN E Wilson	DATE 2/1/74	digital EQUIPMENT CORPORATION NATYARD MASSACHUSETTS	A
		CHKD W. H. B.	DATE 1/24/74		
		ENG J. H. H. H.	DATE 9 JAN 75		
		PROJ. ENG. M. Morganstern	DATE 7 JAN 75		
		PRDD. M. Morganstern	DATE 7 JAN 75		
NEXT HIGHER ASSY			TITLE		
E-UA-VT50-0-0			KEYBOARD A VT50		
DEC NO.	EIA NO.	SCALE	NUMBER	REV.	
		NONE	DCS 5410893-0-1	K	
CONVERSION CHART		SHEET	OF		
		4			

[illegible]

R Pucci 3-1-76	M. MORGANSTERN				
<i>R Pucci 2-23-76</i>					
5410893-00007 K					
R Pucci 11-20-75					
WHITLEY					
<i>Whitley 11-20-75</i>					
5410893-00006 J					
R Pucci 11-5-75					
R. DICKSON					
<i>Whitley 8-11-75</i>					
5410893-00005 H					
<i>Morganstern</i>					
M MORGANSTERN					
<i>George Gray 75</i>					
5410893-00004 F					
<i>M. Morganstern</i>					
M. MORGANSTERN					
<i>George Gray 4-4-75</i>					
5410893-00003 E					
<i>M. Morganstern</i>					
M MORGANSTERN					
<i>R. Whitley</i>					
5410893-00002 D					
<i>M. Morganstern</i>					
M MORGANSTERN					
<i>Whitley 10-75</i>					
5410893-00001 C					
<i>R. Pucci 11-20-75</i>					
MM					
ORIGINATED					
CHK	CHANGE NO.				REV
					REVISIONS

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DCS 5410893-0-1 K

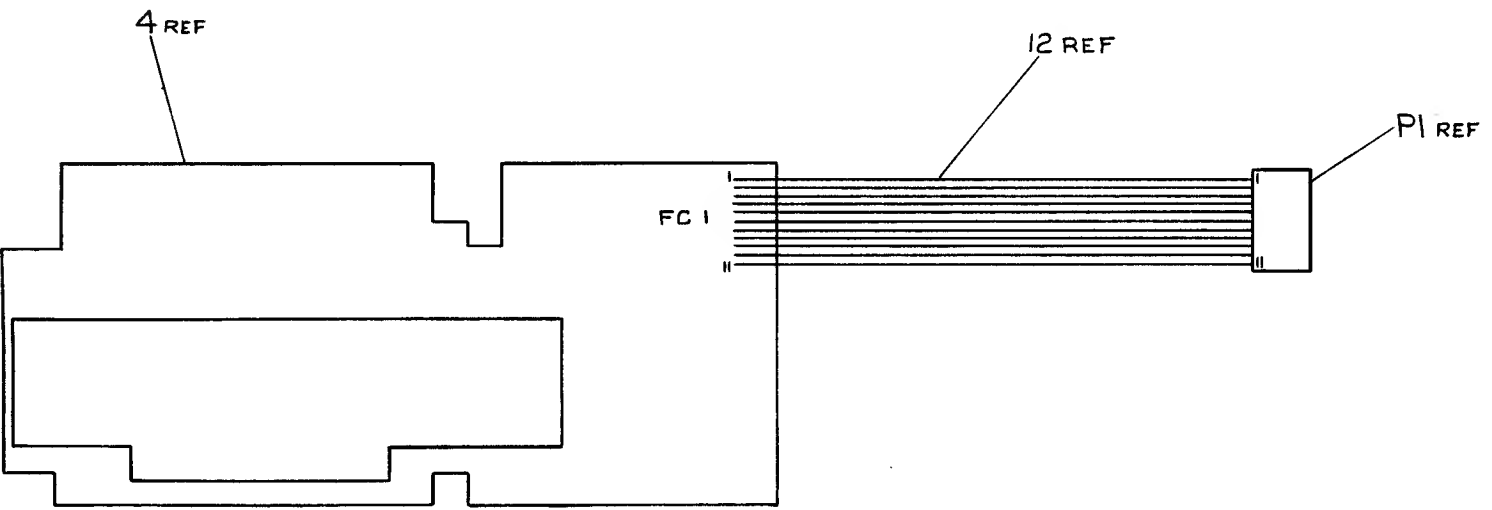


- FCI
- 11 CTR KEY L
  - 10 BRK KEY L
  - 9 AC 0
  - 8 AC 1
  - 7 AC 2
  - 6 AC 3
  - 5 AC 4
  - 4 AC 5
  - 3 GROUND
  - 2 KEY UP H
  - 1 +5V

REVISIONS		
CHK	CHANGE NO.	REV.

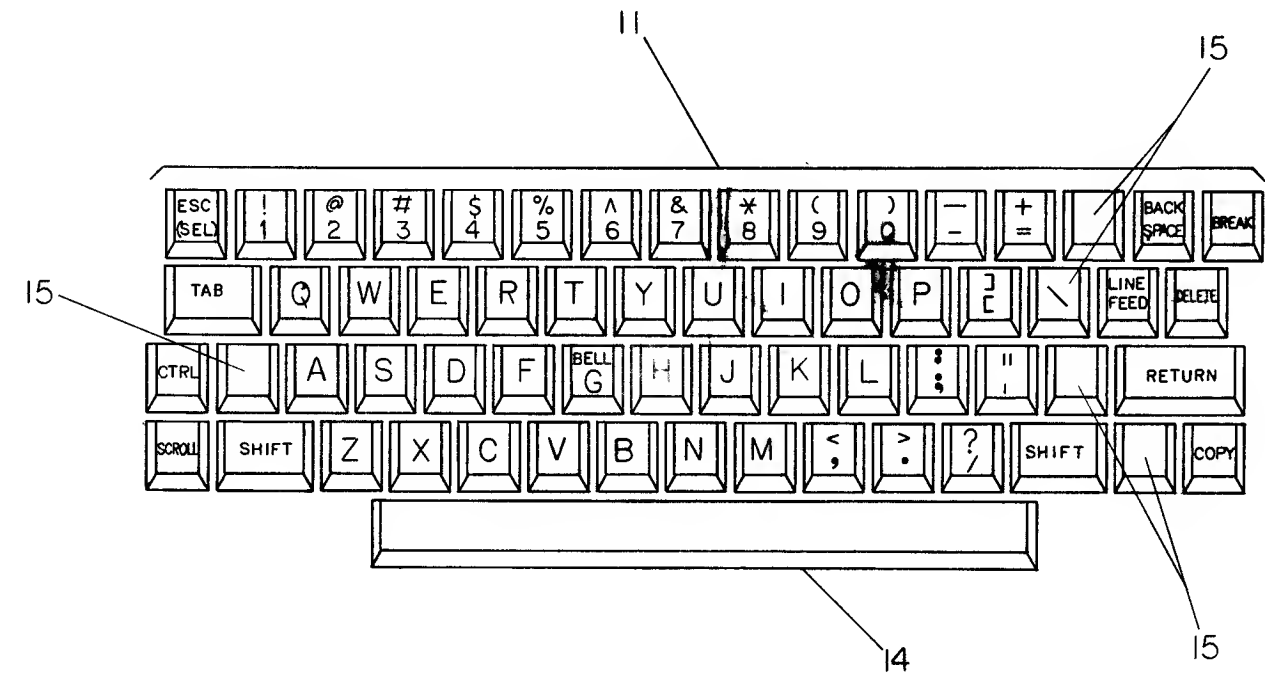
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WIRE TABLE							
ITEM NO	AWG	COLOR	FROM		TO		REMARKS
			CONN	WITH	CONN	WITH	
12	22	BLK	PI-1	---	FC1-1	SOLDER	+5V
		BRN	PI-2	---	FC1-2		KEY UP H
		RED	PI-3	---	FC1-3		GND
		ORN	PI-4	---	FC1-4		AC5
		YEL	PI-5	---	FC1-5		AC4
		GRN	PI-6	---	FC1-6		AC3
		BLU	PI-7	---	FC1-7		AC2
		VIO	PI-8	---	FC1-8		AC1
		GRY	PI-9	---	FC1-9		AC0
		WHT	PI-10	---	FC1-10		BRK KEY
12	22	BLU	PI-11	---	FC1-11	SOLDER	CTRL KEY



REVISIONS		
CHK	CHANGE NO.	REV.


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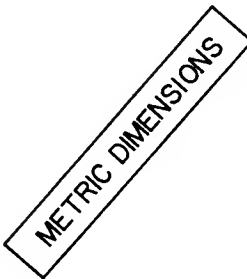


REVISIONS		
CHK	CHANGE NO.	REV



REVISOR'S		CHK	CHANGE NO.	REV.
		WJ	VT50-00012	A
R. DOANE				
		WJ	VT50-00015	B
R. DOANE				
		WJ	VT50-00016	
WJ HAZEN				
		WJ	VT50-00017	
WJ HAZEN				
		WJ	VT50-00018	
WJ HAZEN				
		WJ	VT50-00019	
WJ HAZEN				
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WJ HAZEN				
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WJ HAZEN				
		WJ	VT50-00040	
WJ HAZEN				
		WJ	VT50-00041	
WJ HAZEN				
		WJ	VT50-00042	
WJ HAZEN				
		WJ	VT50-00043	
WJ HAZEN				
		WJ	VT50-00044	
WJ HAZEN				
		WJ	VT50-00045	
WJ HAZEN				
		WJ	VT50-00046	
WJ HAZEN				
		WJ	VT50-00047	
WJ HAZEN				
		WJ	VT50-00048	
WJ HAZEN				
		WJ	VT50-00049	
WJ HAZEN				
		WJ	VT50-00050	
WJ HAZEN				
		WJ	VT50-00051	
WJ HAZEN				
		WJ	VT50-00052	
WJ HAZEN				
		WJ	VT50-00053	
WJ HAZEN				
		WJ	VT50-00054	
WJ HAZEN				
		WJ	VT50-00055	
WJ HAZEN				
		WJ	VT50-00056	
WJ HAZEN				
		WJ	VT50-00057	
WJ HAZEN				
		WJ	VT50-00058	
WJ HAZEN				
		WJ	VT50-00059	
WJ HAZEN				
		WJ	VT50-00060	
WJ HAZEN				
		WJ	VT50-00061	
WJ HAZEN				
		WJ	VT50-00062	
WJ HAZEN				
		WJ	VT50-00063	
WJ HAZEN				
		WJ	VT50-00064	
WJ HAZEN				
		WJ	VT50-00065	
WJ HAZEN				
		WJ	VT50-00066	
WJ HAZEN				
		WJ	VT50-00067	
WJ HAZEN				
		WJ	VT50-00068	
WJ HAZEN				
		WJ	VT50-00069	
WJ HAZEN				
		WJ	VT50-00070	
WJ HAZEN				
		WJ	VT50-00071	
WJ HAZEN				
		WJ	VT50-00072	
WJ HAZEN				
		WJ	VT50-00073	
WJ HAZEN				
		WJ	VT50-00074	
WJ HAZEN				

THIRD ANGLE PROJECTION	ORN, <i>James E. Hays, Jr.</i> 4-3-75	FIRST USED ON			digital
	CHK'D <i>W. J. Hays</i> 4-12-75	VT50			
REMOVE BURRS AND BREAK SHARP CORNERS	END <i>W. J. Hays</i> 4-29-75	TITLE			
	PROJ. ENG. <i>W. J. Hays</i> 4-29-75	TRANSFORMER ASSY			
	PROD. <i>J. J. Hays</i> 6-1-75				
DO NOT SCALE OWG	NEXT HIGHER ASSY.				
MATERIAL SEE PARTS LIST	Q-VA-VT50-2-2	SIZE	CODE	NUMBER	REV.
FINISH	SCALE NONE	1	AD	7010R61-0-0	C
	SHEET OF 2	DIST.			



1	1	1	1	1	1	DECAL, GROUND	A-DC-3612680-01	25
1	1	1	-	-	-	PLATE, MTG. TRANSFORMER	1-IA-7415341-0-0	24
			1	1	1	<del>SHOCKER, VT-50-112</del>	<del>1-DC-7415341-0-0</del>	<del>23</del>
1	-	-	1	-	-	HARNESS, TRANSFORMER (50HZ)	0-IA-7011131-1-0	22
1	-	-	1	-	-	PLATE, VT50-51	2-IA-7413407-3-0	21
-	1	-	-	1	-	PLATE, VT50-51	2-IA-7413407-2-0	20
-	1	-	-	1	-	HARNESS, TRANSFORMER (50HZ)	0-IA-7011131-0-0	19
-	-	1	-	-	1	HARNESS, TRANSFORMER (60HZ)	1-IA-7011130-0-0	18
A/R	A/R	A/R	A/R	A/R	A/R	TUBING, SHRINKABLE WHT	9107253-09	17
1	1	1	1	1	1	NUT, 8-32, HEX	9006361	16
-	-	1	-	-	1	PLATE, VT 50-51	2-IA-7413407-1-0	15
4	4	4	4	4	4	NUT, 4-40, KEP	9006557	14
4	4	4	4	4	4	NUT, 8-32, KEP	9006563	13
2	2	2	2	2	2	SCREW, 8-32X.250 BUTTON HD	9009744	12
2	2	2	2	2	2	SCREW, 4-40X.312 FLATHEAD	9006010-02	11
4	4	4	4	4	4	SCREW, 8-32X.437 FLATHEAD	9006038-02	10
1	1	1	1	1	1	NUT, 10-32, KEP	9006565	9
1	1	1	1	1	1	RELIEF, CABLE STRAIN	9008492-02	8
1	1	-	1	1	-	CORD POWER, 220/240	C-IA-7011019-1	7
-	-	1	-	-	1	CORD POWER, 115V	C-IA-7011019-0	6
-	1	-	-	1	-	BREAKER CIRCUIT	1210242-01	5
1	-	1	1	-	1	BREAKER CIRCUIT	1210242-00	4
1	1	1	1	1	1	FILTER	1212877-00	3
1	1	1	1	1	1	SWITCH	1211937	2
-	-	-	1	1	1	PLATE MTG TRANSFORMER	D-IA-7412850-0-0	1

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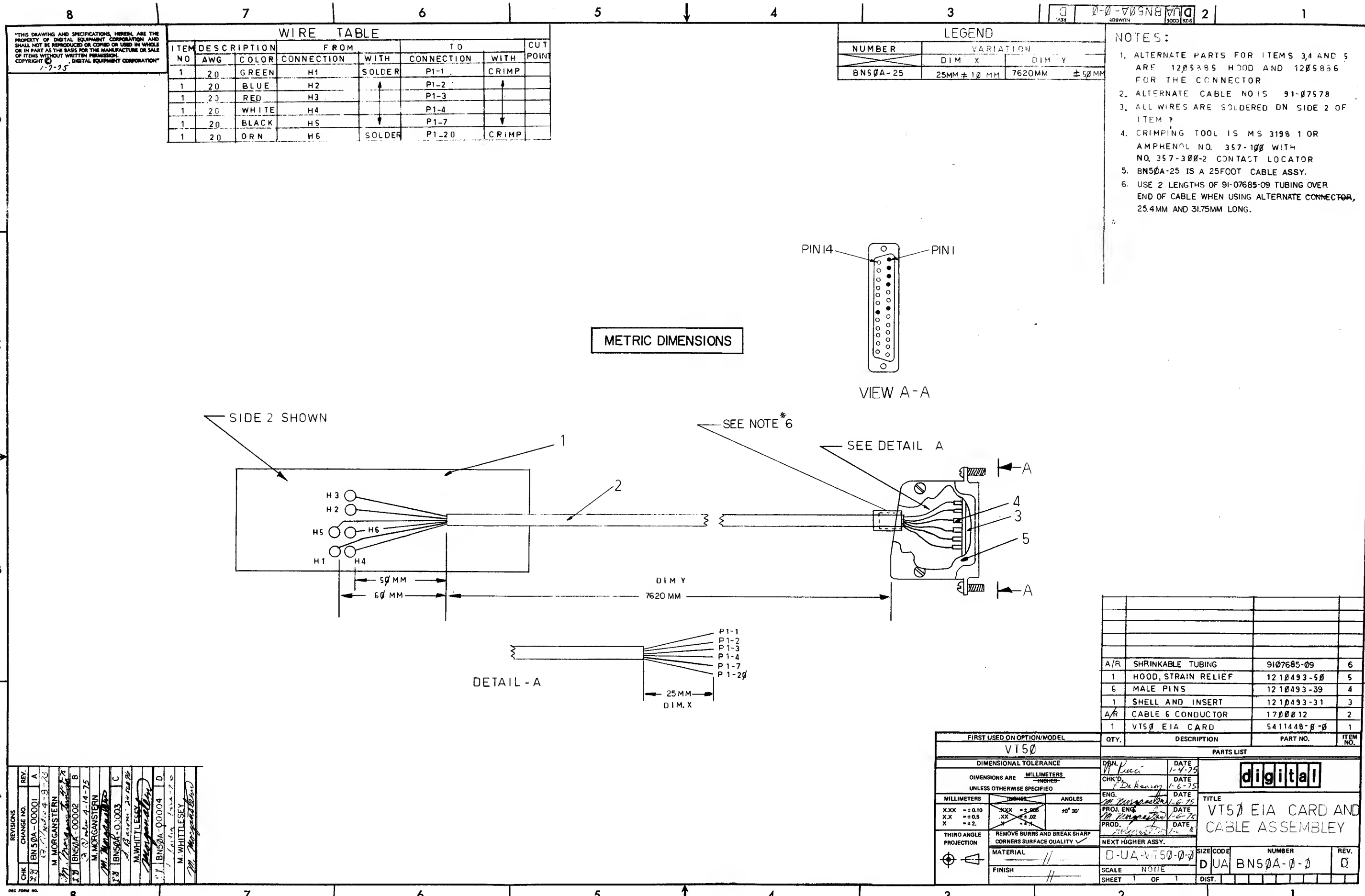
115 VOLTS  
60 HZ

ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
			POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
18	—	—	—	PI	—	—	—	—	
↑	—	—	1	—	—	—	SI-5	—	
	—	—	2	—	—	—	SI-1	—	
	—	—	3	—	—	—	—	—	NOT USED
	—	—	4	—	—	—	—	—	NOT USED
	18	BLK	13	FL LOAD 1	17	18	CB-1	17	
	14	BLK	14	SI-2	—	17	CB-2	17	
	14	WHT	15	SI-6	—	16	FL LOAD 2	17	
↓	18	GRN	19	—	—	—	GND	—	
18	18	GRN	20	—	—	—	GND	—	
6	18	WHT	—	—	—	—	FL LINE 3	17	
6	18	BLK	—	—	—	—	FL LINE 4	17	
6	18	GRN	—	—	—	—	GND	—	

100/127 VOLTS  
220/240 VOLTS  
50-60 HZ

ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
			POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
19 or 22	—	—	—	PI	—	—	—	—	
↑	16	BLK	1	—	—	—	SI-1	—	
	18	GRN	2	—	—	—	GND	—	
	18	GRN	3	—	—	—	GND	—	
	14	BLK	12	—	—	—	CB-2	17	
	18	BLK	17	CB-1	15	18	FL LOAD 1	17	
	14	WHT	19	—	—	—	FL LOAD 2	17	
	18	BLK	13	—	—	—	SI-2	—	
	18	BLK	14	—	—	—	SI-3	—	
	18	WHT	15	—	—	—	SI-5	—	
	18	WHT	16	—	—	—	SI-6	—	
	18	BLK/WHT	22	—	—	—	SI-4	—	
	18	WHT	24	—	—	—	SI-7	—	
	18	WHT	25	—	—	—	SI-8	—	
↓	16	RED/YEL	26	—	—	—	—	—	NOT USED
19 or 22	16	RED/YEL	27	—	—	—	—	—	NOT USED
7	18	BRN	—	—	—	—	FL LINE 4	17	
7	18	BLU	—	—	—	—	FL LINE 3	17	
7	18	GRN/YEL	—	—	—	—	GND	9	

REVISIONS		
CHK	CHANGE NO.	REV.

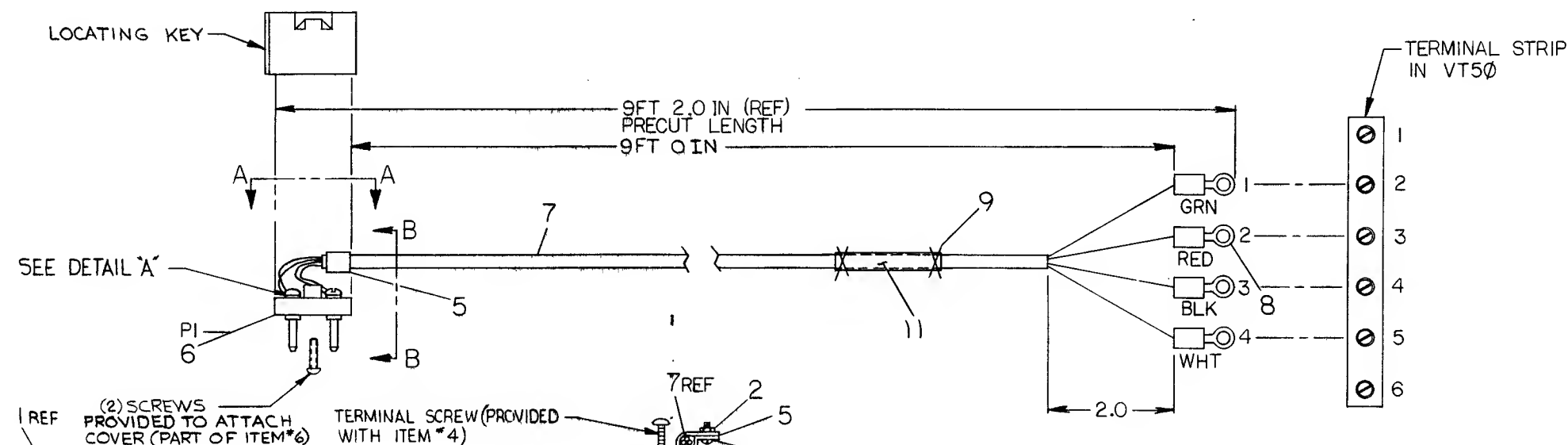
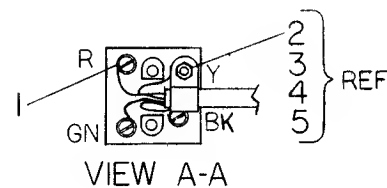


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WIRE TABLE									
ITEM		DESCRIPTION		FROM		TO		SIGNAL	
NO	AWG	COLOR	POINT	CONNECTOR	WITH	POINT	CONNECTOR	WITH	
7	22	RED	—	PI - R	—	2	—	ITEM * 8	KEYBOARD-(OUTPUT)
7	22	BLK	—	PI - BK	—	3	—	—	PRINTER+(INPUT)
7	22	GRN	—	PI - GRN	—	1	—	—	KEYBOARD-(OUTPUT)
7	22	WHT	—	PI - Y	—	4	—	ITEM * 8	PRINTER -(INPUT)

NOTES:

1. DISCARD SMALL SCREW SUPPLIED WITH PLUG (ITEM\*6).
2. ATTACH CONN (ITEM\*10) TO CABLE WITH ONE (1) CABLE TIE (ITEM\*9) DO NOT REMOVE CONN FROM BAG.



WIRE IS STRIPPED AND WRAPPED IN A CLOCKWISE DIRECTION UNDER FLAT WASHER ITEM \*1

DETAIL 'A'

VIEW B-B

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	LABEL, CABLE ID	9009532	11
1	CONN, TELEPHONE (JACK)	1205857-02	10
3	CABLE, TIE	9007880	9
4	TERMINAL, RING TONGUE	9007930-00	8
A/R	CABLE, 4 CONDUCTOR	9107706	7
1	CONN, TELEPHONE (PLUG)	1205857-01	6
1	CABLE CLAMP .12	9007079	5
1	WASHER, FLAT NYLON *4	9006706	4
1	SCR, NYLON BIND. HD 4-40X.38	9006401-4	3
1	NUT, NYLON 4-40	9007992	2
4	WASHER, FLAT *4	9008172	1

FIRST USED ON OPTION/MODEL VT50/DEC SYSTEM 10		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
DIMENSIONAL TOLERANCE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		DRN M. G. G. G.		DATE 10-25-74		CHK'D J. G. G.		DATE 2-28-75	
MILLIMETERS XXX = ±0.10 XX = ±0.5 X = ±2		INCHES .XXX = ±.005 .XX = ±.02 .X = ±.1		ANGLES 30° 30'		THIRD ANGLE PROJECTION		REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY	
MATERIAL SEE PARTS LIST		FINISH —		NEXT HIGHER ASSY.		SIZE CODE D IA		NUMBER 701089-0-0	
SCALE 1/1		SHEET 1 OF 1		DIST.		REV.			

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9 PIN  
CONN REF

4 PIN CONN REF

GND

METRIC DIMENSIONS

1	HARNESS, TRANSFORMER	1-IA-7012161-0-0	6
1	TIE MOUNT	90 08264-00	5
1	CABLE TIE	90 07032-00	4
4	NUT, *8-32 KEP	90 06563-00	3
4	WASHER, FLAT	90 06660-00	2
1	PLATE, MTG, TRANS.	2-IA-7414867-0-0	1

DESCRIPTION		DWG./PART NO.		ITEM NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER					
		OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
SURFACE QUALITY IN MICROINCHES	MEDIUM <input type="checkbox"/>	±0.1	±0.2	±0.3	±0.4	±0.6	±1.0
	PREFERRED <input type="checkbox"/>	±0.3	±0.4	±0.6	±1.0	±1.6	±2.5

THIRD ANGLE PROJECTION		DRN. <i>P.C. [signature]</i> 9-10-75	FIRST USED ON		VT50		digital				
REMOVE BURRS AND BREAK SHARP CORNERS		CHK'D <i>P.C.</i> 10/14/75	TITLE		TRANSFORMER ASSEMBLY						
DO NOT SCALE DWG		ENG. <i>K.L. [signature]</i>	PROJ. ENG. <i>yeat [signature]</i>		PROD. <i>DO [signature]</i> 12/18/75						
MATERIAL SEE PARTS LIST		NEXT HIGHER ASSY.		SIZE		CODE		NUMBER		REV.	
FINISH		0-UA-VT52-0-0		SCALE		NONE		2		AD 7011852-0-0	
		SHEET 1 OF 1		DIST.							

4 PIN CONN REF

GND-

**METRIC DIMENSIONS**

1	HARNESS, TRANSFORMER	1-IA-7012161-0-0	6
1	TIE MOUNT	90 08264-00	5
1	CABLE TIE	90 07032-00	4
4	NUT, *8-32 KEP	90 06563-00	3
4	WASHER, FLAT	90 06660-00	2
1	PLATE, MTG, TRANS.	2-IA-7414867-0-0	1

<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	DESCRIPTION			DWG./PART NO.		ITEM NO.		
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
			ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER					
			SURFACE QUALITY IN		OVER 1 TO	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2000
				MICROINCHES	MEDIUM <input type="checkbox"/>	±0.1	±0.2	±0.3	±0.4	±0.6
			PREFERRED <input type="checkbox"/>		±0.3	±0.4	±0.6	±1.0	±1.6	±2.5
QUANTITY & VARIATION										

THIRD ANGLE PROJECTION		DRN. <i>P. Gagnier</i> 9-10-75		FIRST USED ON		VT50		digital			
		CHK'D <i>P.C.</i> 10/19/75		TITLE TRANSFORMER ASSEMBLY							
REMOVE BURRS AND BREAK SHARP CORNERS		ENG. <i>K.L.</i> 11/1/75									
DO NOT SCALE DWG		PROJ. ENG. <i>Yach</i> 11/1/75									
MATERIAL <i>SEE PARTS LIST</i>		PROD. <i>P.D.</i> 12/19/75		SIZE		CODE		NUMBER		REV.	
FINISH		SCALE <i>NONE</i>		2		AD		7011852-0-0			
		SHEET / OF /		DIST.							

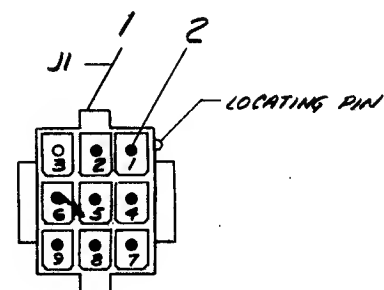
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WIRE TABLE						
ITEM NO	DESCRIPTION		FROM		TO	
			CONNECTION	WITH	CONNECTION	WITH
6	18	GRN	J1-1	2	PI-1	4
6	18	GRN	J1-2	2	PI-2	4
7	18	VIO	J1-4	2	PI-4	4
7	18	VIO	J1-5	2	PI-5	4
8	18	W/O/BLK	J1-6	2	PI-6	4
9	18	BLUE	J1-7	2	PI-7	4
9	18	BLUE	J1-8	2	PI-8	4
10	18	BLUE/BLK	J1-9	2	PI-9	4

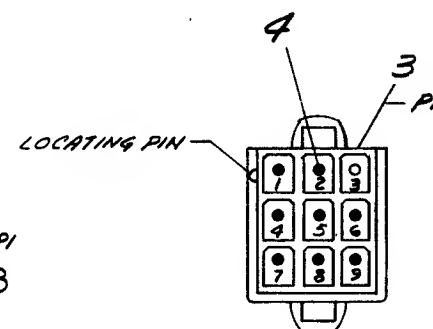
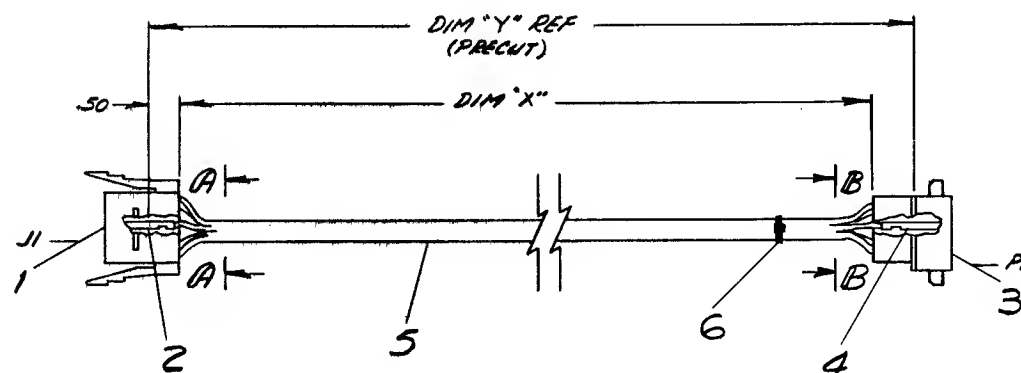
LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
	14 IN ± 1 IN	15 IN ± 1 IN

NOTES:

1. ALL CONNECTIONS TO BE MADE POINT TO POINT. (J1-1 TO PI-1) ETC.



VIEW A-A  
SCALE: NONE



VIEW B-B  
SCALE: NONE


WIRE, #18 AWG BLUE/BLK	9107410-60	10
WIRE, #18 AWG BLUE	9107360-66	9
WIRE, #18 AWG VIO/BLK	9107410-70	8
WIRE, #18 AWG VIO	9107360-77	7
WIRE, #18 AWG GRN	9107360-55	6
TIE WRAP	9007031-00	5
PIN, TERMINAL	1209378-00	4
PIN, HOUSING	1209351-09	3
SOCKET, TERMINAL	1209379-00	2
SOCKET, HOUSING	1209350-09	1

DESCRIPTION		DWG./PART NO.		ITEM NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
ANGLES ±0° 30'		NOMINAL DIMENSION RANGE INCHES				
SURFACE QUALITY IN	CLASS OF ACCURACY (CHECK ONE)	OVER 0 TO 0.2	OVER 0.2 TO 0.4	OVER 0.4 TO 0.8	OVER 0.8 TO 1.6	
		0.2	0.4	1.0	1.6	
	MEDIUM	<input type="checkbox"/> ±0.004	<input type="checkbox"/> ±0.008	<input type="checkbox"/> ±0.012	<input type="checkbox"/> ±0.016	<input type="checkbox"/> ±0.024
	PREFERRED	<input type="checkbox"/> ±0.012	<input type="checkbox"/> ±0.016	<input type="checkbox"/> ±0.025	<input type="checkbox"/> ±0.036	<input type="checkbox"/> ±0.1
MICRO INCHES						

THIRD ANGLE PROJECTION	9/17/75	FIRST USED ON	VT52
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D 9/17/75	PROJ. ENG. 9/17/75	PRDD. D. Anderson 12/11/75
DO NOT SCALE DWG	NEXT HIGHER ASSY.	MATERIAL	SEE PARTS LIST
FINISH	SCALE NONE	SHEET	1 OF 1
TITLE		NUMBER	REV.
CABLE, EXTENSION		D IA 7011868-0-0	

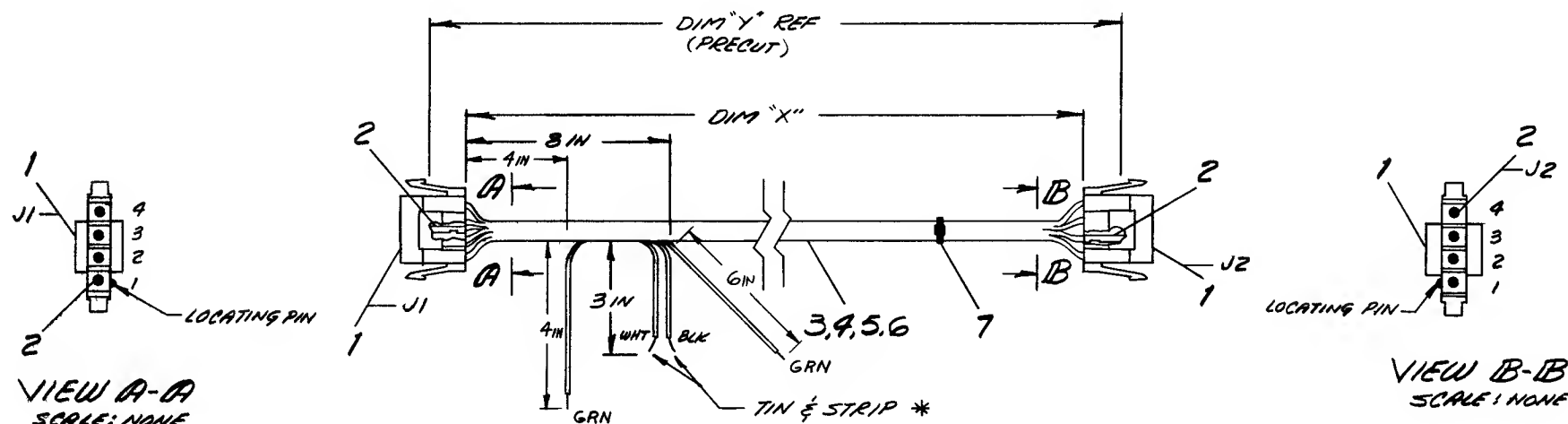


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LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y" REF
7011867-1	16 IN. $\pm$ 1 IN.	17 IN. $\pm$ 1 IN.


WIRE TABLE						
ITEM NO	DESCRIPTION		FROM		TO	
	AUGS	COLOR	CONNECTION	WITH	CONNECTION	WITH
3	*18	RED	J1-4	*2	J2-4	*2
6	*18	RED/YEL	J1-3	*2	J2-3	*2
4	*18	BLK	J1-2	*2	J2-2	*2
4	*18	BLK			-	*
5	*18	WHT	J1-1	*2	J2-1	*2
5	*18	WHT			-	*
8	*18	GRN	GROUND	9	GROUND	9

\* INDICATES TIN & STRIP



2	TERMINAL, RING TONGUE*70	9007930-01	9
AIR	WIRE, *18 AWG GRN	9107360-55	8
AIR	TIE WRAP	9007231-00	7
AIR	WIRE, *18 AWG RED/YEL	9107410-24	6
AIR	WIRE *18 AWG WHT	9107360-99	5
AIR	WIRE *18 AWG BLK	9107360-00	4
AIR	WIRE *18 AWG RED	9107360-22	3
8	SOCKET, TERMINAL	1209379-00	2
2	SOCKET, HOUSING	1209350-04	1

DESCRIPTION		DWG./PART NO.		ITEM #			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES							
ANGLES 10° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES					
	(CHECK ONE)	OVER 0 0.2	OVER 0.2 1.2 4.0	OVER 1.2 4.0 12.0 40.0	OVER 12.0 40.0		
SURFACE QUALITY IN	MEDIUM <input type="checkbox"/>	±0.04	±0.08	±0.12	±0.16	±0.24	±0.4
	PREFERRED <input checked="" type="checkbox"/>	±0.012	±0.016	±0.025	±0.04	±0.063	±0.1
MICROFINISHES:							

THIRD ANGLE PROJECTION		PRN 0 1/2 9/17/75 CHK'D R. J. 10/14/75 ENG. _____ PROJ. ENG. _____ PRDD DA 10/14/75		FIRST USED ON VT52		digita	
				TITLE		CABLE,	
REMOVE BURRS AND BREAK SHARP CORNERS						PRIMARY POWER	
OD NOT SCALE DWG		NEXT HIGHER ASSY.					
MATERIAL 562 PARTS LIST		0-1A- VT52-2-0		SIZE		REV	
FINISH		SCALE NONE		CODE		NUMBER	
		SHEET / OF /		DIA		7011867-0-0	

## PARTS LIST

DATE March 1968

DATE 20 Jan 76

1

### DESCRIPTION

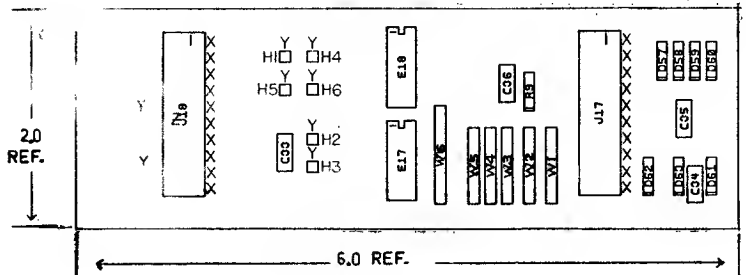
SYSTEM MANUAL

\*THESE ITEMS ARE OPTIONAL; TO  
BE SHIPPED ONLY WHEN PURCHASED AS  
SEPERATE ITEMS BY CUSTOMER.

7.	ECO NO.
----	---------

NOTES:

- 1 THIS CIRCUIT IS REPEATED 12 TIMES ON A 8"x18" CIRCUIT BOARD
- 2 ALL DIODES ARE D664
- 3 MARK = -10V = LOGIC 1  
SPACE = +10V = LOGIC 0
- 4 BOARD STOCK IS DEC PART NUMBER
- 5 PLACEMENT OF COMPONENTS IS DEPENDANT ON DEC  
DRAWING 5411448-06, FOR MOUNTING AND CLEARANCE

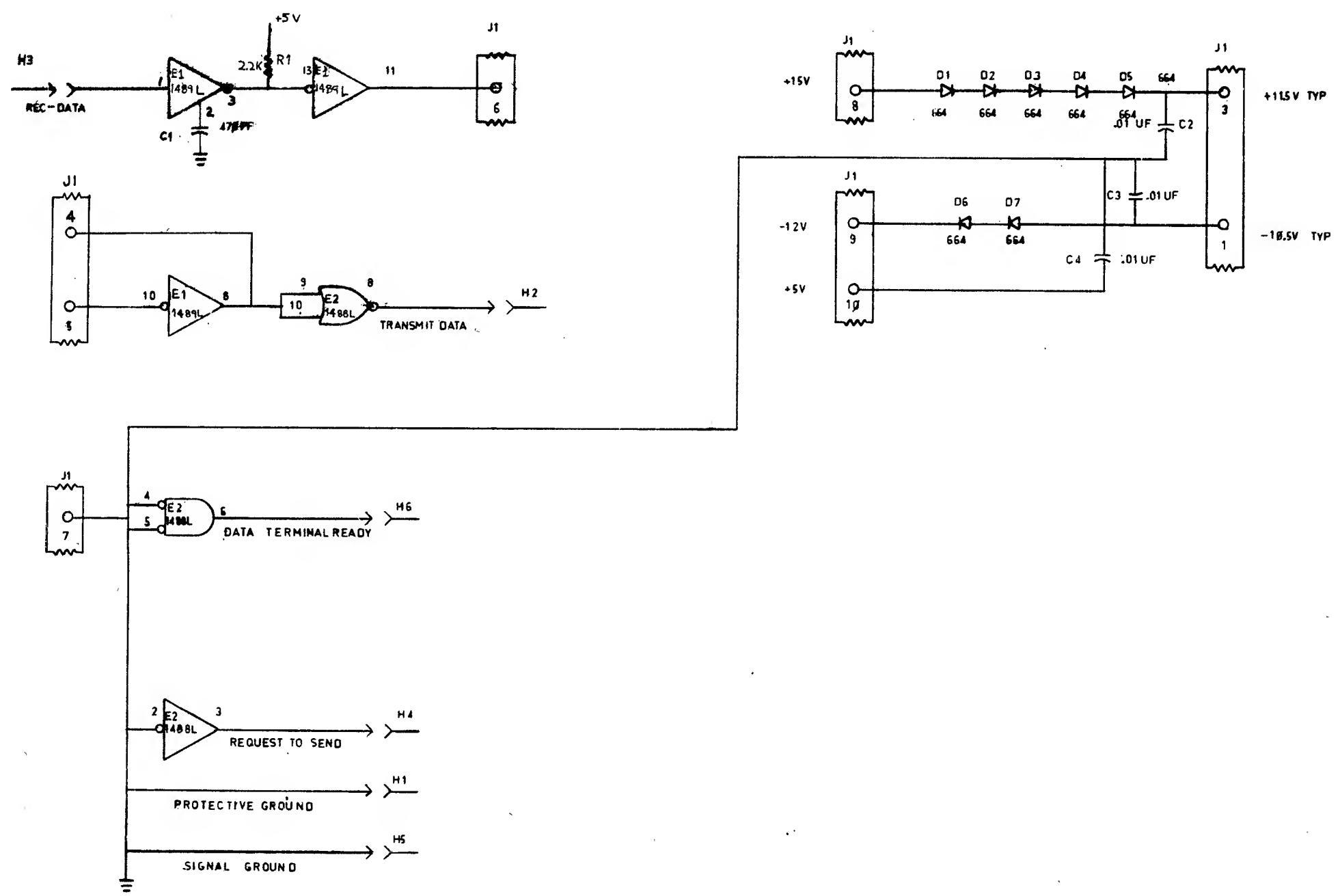


QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
6	H1-H6	EYELET GS4-3	98-87836	13
6	W1-W6	JUMPER	9107560-01	12
1	E1	MC 1489 EIA RECEIVER	19-18323	11
1	E2	MC 1488 EIA DRIVER	19-18322	10
1	R1	RES 2.2K 1/4W 5% C.C.	13-00417	9
2	J1, 2	CONN AMP C15 TOP ENTRY 10 PIN	12-11982	8
7	D1-D7	DIODE D664	11-00114	7
3	C2,3,4	CAP .01UF 100V 20% DISC	18-01618-01	6
1	C1	CAP 470PF 100V D.M.	18-00024	5
1		ETCHED CIRCUIT BOARD	5011447	4
REF		MODULE HISTORY LIST	B-MH-5411448-0-6	3
REF		ASSY DRILLING HOLE LAYOUT	D-AH-5411448-0-5	2
REF		X-Y COORDINATE HOLE LOC.	K-CO-5411448-0-4	1

FIRST USED ON OPTION MODEL VT50		ETCH BOARD REV. <input checked="" type="checkbox"/> A <input checked="" type="checkbox"/> B	
DRN. <i>R. Pucci</i> DATE 12-28-74		DATE 1-6-75	
CHK. <i>R. Pucci</i> DATE 1-6-75		DATE 1-6-75	
ENG. <i>R. Pucci</i> DATE 1-6-75		DATE 1-6-75	
PROJ. ENG. <i>R. Pucci</i> DATE 1-6-75		DATE 1-6-75	
PROD. <i>R. Pucci</i> DATE 1-6-75		DATE 1-6-75	
NEXT OTHER ASSY		D-UA-BN50A-0-0	
SCALE NONE		SIZE CODE: D CS	
SHEET 1 OF 2		NUMBER 5411448-0-1	
SEMICONDUCTOR CONVERSION CHART		REV. B	

DEC 1489 L	7	14	1
IS TYPE	END	+0V	+115V
END AND BY ARE USUALLY FOR 7 AND 14			
REVISIONS			
M. WHITTLESEY			
5411448-000001 B			
CHANGE NO. REV.			
CHK			

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 11-17-01 BY 60322 UCBAW/BJS/STP



REVISIONS		
REV.	CHANGE NO.	DESCRIPTION
1		

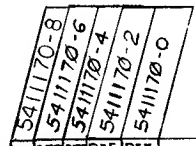
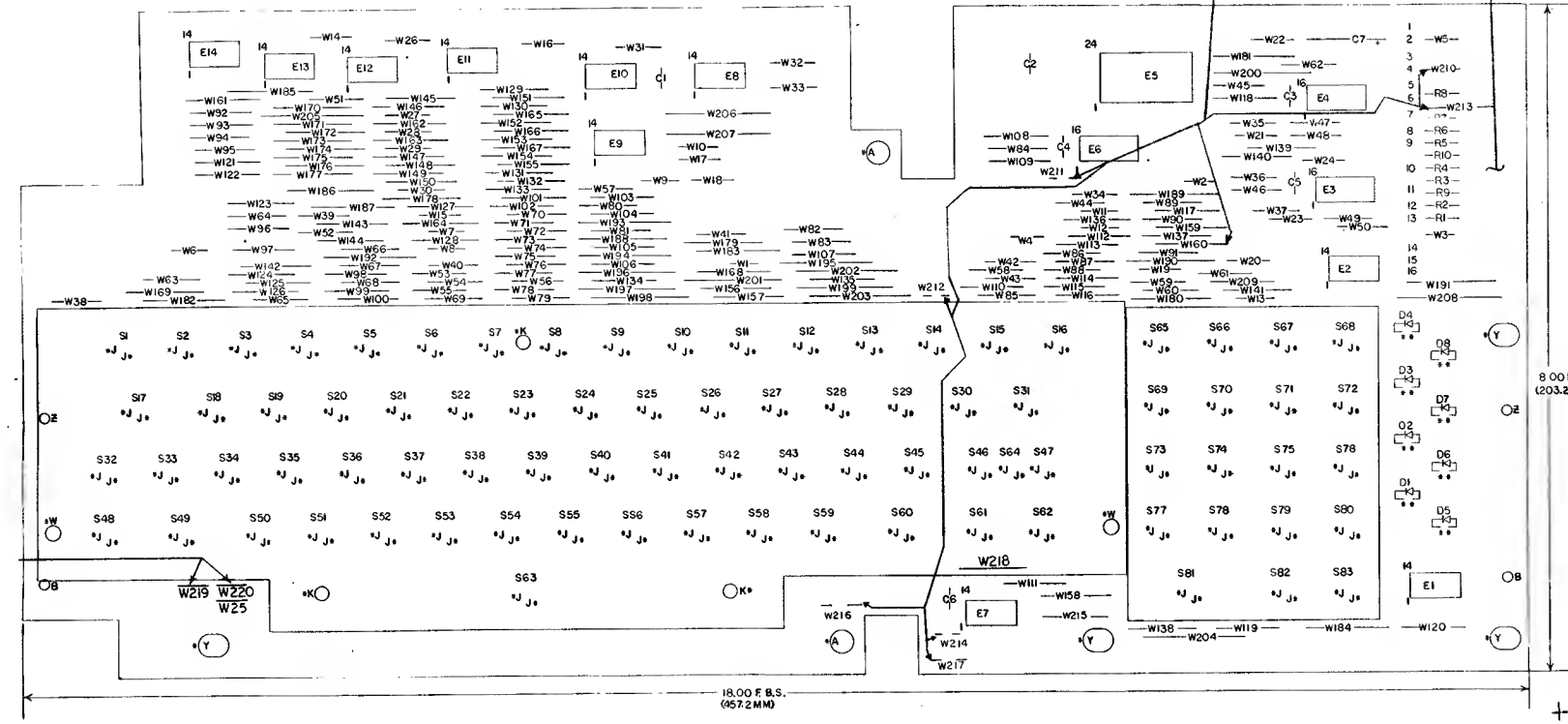
DCS 5411448-0-1 B 1

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NOTES:

1. OPTIONAL JUMPERS: SEE SHEET 2 FOR CONFIGURATION TABLE.  
2. SEE SHEET 3 OF 5 FOR WIRE TABLE.  
3. SEE SHEETS 4&5 FOR VARIATION KEYCAP PLACEMENT.  
4. NOTE THAT THE BOARD FOR ALL VARIATIONS (-0THRU-6) OF THIS BOARD MAY REQUIRE UPDATING ON ANY ECO.

VARIATION EXPLANATION	
VARIATION	COMMENT
5411170-0	VT61
5411170-1	HEAT CYCLED, SYSTEM-TESTED 5411170-0
5411170-2	BASIC VT50H
5411170-3	HEAT CYCLED, SYSTEM-TESTED 5411170-2
5411170-4	VT52
5411170-5	HEAT CYCLED, SYSTEM TESTED 5411170-4
5411170-6	VT761
5411170-7	HEAT CYCLED, SYSTEM TESTED 5411170-6
5411170-8	VT52-W
5411170-9	HEAT CYCLED, SYS. TESTED 5411170-8



REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	REF	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DEC IC	TYPE	GND	+5V
DEC IC 7442	8	16	
DEC IC 74175	8	16	
DEC IC 74150	12	24	
GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.			
IC PIN LOCATIONS			

Handwritten notes and signatures, including dates like 5/11/76 and 12-20-76, and names like J. BUZYNSKI and M. WHITTESEY.

FIRST USED ON OPTION MODEL  
VT61/VT50

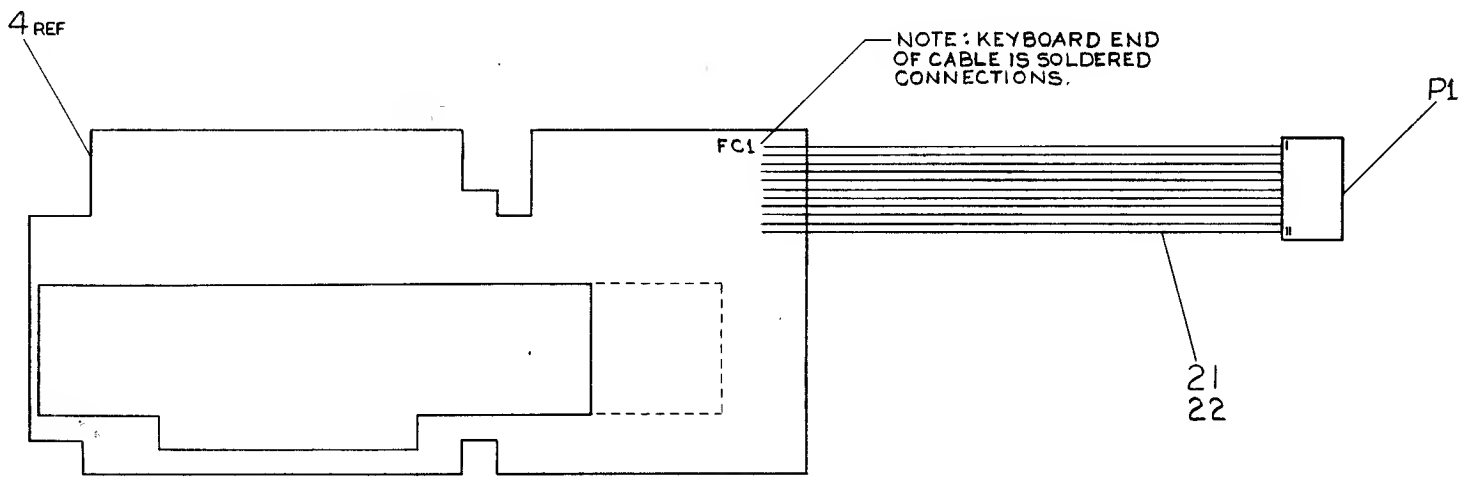
PARTS LIST		SEMICONDUCTOR CONVERSION CHART	
QTY	REF. DESIGNATION	DEC NO.	EIA NO.
1	ETCH BOARD REV. C		
TITLE		SCALE	
KEYBOARD VT61/VT50H		SHEET 1 OF 5	
NEXT HIGHER ASSY		DIST.	
0-04-VT50		REV.	
DATE		E	

DEC FORM NO  
DSD 138

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WIRE TABLE (5411170-2,4,8)					
ITEM NO.	DESCRIPTION	FROM	TO	CONNECTION	REMARKS
21	22	BLK	P1-1	FC1-2	+5V
		BRN	P1-2	FC1-3	KEY UP H
		RED	P1-3	FC1-4	GND
		ORN	P1-4	FC1-8	AC5
		YEL	P1-5	FC1-9	AC4
		GRN	P1-6	FC1-10	AC3
		BLU	P1-7	FC1-11	AC2
		VIO	P1-8	FC1-12	AC1
		GRY	P1-9	FC1-13	AC0
		WHT	P1-10	FC1-6	BRK KEY
21	22	BLU	P1-11	FC1-7	AC6

WIRE TABLE (5411170-0,6)					
ITEM NO.	DESCRIPTION	FROM	TO	CONNECTION	REMARKS
22	22	BLK	P1-1	FC1-1	CAPS LOGIC
		BRN	P1-2	FC1-2	+5V
		RED	P1-3	FC1-3	KEYUP
		ORN	P1-4	FC1-4	GND
		YEL	P1-5	FC1-5	AC7
		GRN	P1-6	FC1-6	LO LED FLAGS
		BLU	P1-7	FC1-7	AC6
		VIO	P1-8	FC1-8	AC5
		GRY	P1-9	FC1-9	AC4
		WHT	P1-10	FC1-10	AC3
		WHT/BLK	P1-11	FC1-11	AC2
		WHT/BRN	P1-12	FC1-12	AC1
		WHT/RED	P1-13	FC1-13	AC0
		WHT/ORN	P1-14	FC1-14	+5V
		WHT/YEL	P1-15	FC1-15	GND
22	22	WHT/BLU	P1-16	FC1-16	GND



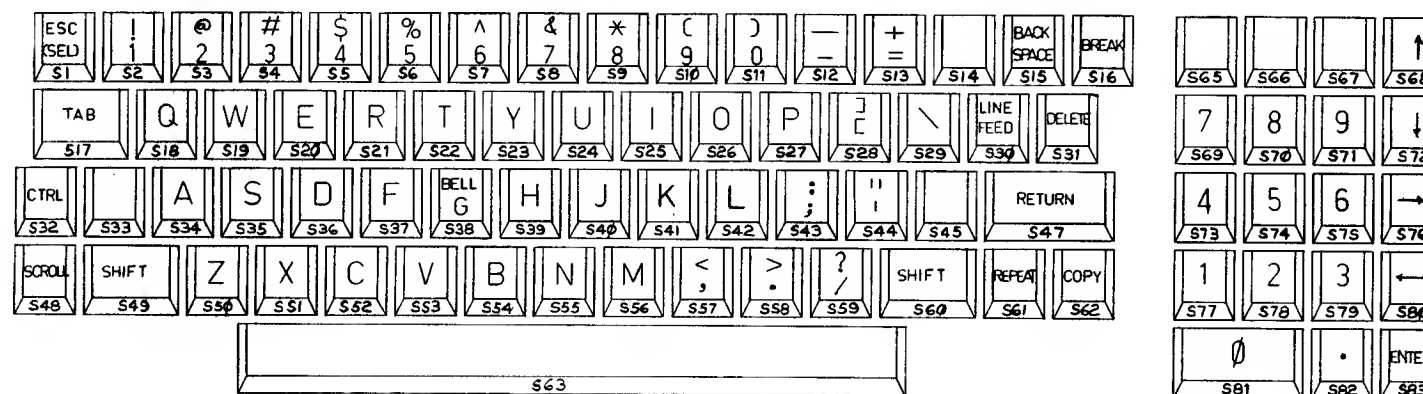
INCH

THIRD ANGLE PROJECTION		QUANTITY & VARIATION		DESCRIPTION		DWG./PART NO.		ITEM NO.	
REMOVE BURRS AND BREAK SHARP CORNERS		DO NOT SCALE DWG		NEXT HIGHER ASSY.		FIRST USED ON		TITLE	
MATERIAL		FINISH		SCALE		SHEET 3 OF 5		DIST.	
DRN. [Signature]		CHKD. [Signature]		ENG. [Signature]		PROJ. ENG. [Signature]		PROD. [Signature]	
DATE 3-12-75		DATE 3-12-75		DATE 3-12-75		DATE 3-12-75		DATE 3-12-75	
VT50H/VT61		KEYBOARD VT61/VT50H		(CABLE CONN)		SIZE CODE		NUMBER	
D		CS		5411170-0-1		REV. E		REV. E	

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- NOTES: 1. THE KEYCAP PLACEMENT ON THIS SHEET REPRESENTS THE VT50H, VT50J PLACEMENT. TO FIND KEYCAP LOCATIONS FOR OTHER VARIATIONS MATCH THE SWITCH NUMBERS (EXAMPLE S9) ON EACH KEYCAP ON THIS SHEET WITH THE CORRESPONDING SWITCH NUMBER FOR THE DESIRED VARIATION ON SHEET 5.
2. SEE PARTS LIST FOR ITEM NUMBERS FOR DESIRED VARIATIONS.

SEE NOTE 2



REV.	CHG.	NO.
1	1	1

DEC FORM NO. DRD 102-0

DRN. J. Mitchell	3-1-70	FIRST USED ON	VT50 H/ VT61	digital
CHK'D. J. Mitchell	3-1-70	TITLE	KEYBOARD VT61/VT50H	
ENG. J. Mitchell	3-1-70	(KEYCAP VARIATIONS)		
PROJ. ENG. J. Mitchell	3-1-70			
PROD. J. Mitchell	3-1-70			
NEXT HIGHER ASSY.				
SCALE NONE		SIZE CODE	NUMBER	REV.
SHEET 4 OF 5		D CS	54 11170-0-1	E



